

**NEW GOLD RAINY RIVER MINE  
APPENDIX E.1  
QUARTERLY AIR REPORTS**



**NEW GOLD INC.  
RAINY RIVER MINE**

**AMBIENT AIR QUALITY MONITORING PROGRAM  
FIRST QUARTER 2023 REPORT**

**MAY 2023**

## ACRONYMS AND ABBREVIATIONS

|                          |  |
|--------------------------|--|
| $\mu\text{g}/\text{m}^3$ | Microgram per Cubic Metre  |
| AAQC                     | Ambient Air Quality Criteria   |
| AAQO                     | Alberta Ambient Air Quality Objectives                                 |
| ACFM                     | Cubic Feet Per Minute at Actual Conditions                             |
| AEP                      | Alberta Environment and Parks  |
| ASTM                     | American Society for Testing and Materials                             |
| BCMOE                    | British Columbia Ministry of the Environment                           |
| CAAQS                    | Canadian Ambient Air Quality Standards                                 |
| CFM                      | Cubic Foot Per Minute  |
| Hi-Vol                   | High Volume Sampler  |
| ICP/AES                  | Inductively Coupled Plasma / Atomic Emission Spectroscopy              |
| ICP/MS                   | Inductively Coupled Plasma / Mass Spectrometry                         |
| LPM                      | Litres Per Minute  |
| MECP                     | Ministry of the Environment, Conservation and Parks                    |
| NIST                     | National Institute of Standards and Technology                         |
| $\text{NO}_2$            | Nitrogen Dioxide   |
| $\text{PM}_{2.5}$        | Particulate Matter less than 2.5 microns ( $\mu\text{m}$ ) in diameter |
| POI                      | Point of Impingement   |
| $\text{SO}_2$            | Sulphur Dioxide  |
| TSP                      | Total Suspended Particulate  |
| U.S. EPA                 | United States Environmental Protection Agency                          |
| UTM                      | Universal Transverse Mercator  |

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## **Section 1. INTRODUCTION**

The following is a summary of the First Quarter 2023 Report results of the Ambient Air Quality Monitoring Program undertaken at New Gold Inc.'s Rainy River Mine located north-west of Emo, Ontario.

In this quarter, New Gold Inc. (New Gold) staff operated and maintained the ambient air quality monitoring sampling stations; communicated with laboratory staff, as required; prepared data summary reports; and performed equipment calibrations at the various monitoring stations, as necessary.

This Quarterly Ambient Air Quality Report addresses the required elements of a Quarterly Report, as defined in the "Operations Manual for Air Quality Monitoring in Ontario" (Ontario Ministry of the Environment, Conservation and Parks, 2019), hereafter referred to as the Operations Manual. The following information is provided:

- Sampling Details
- Contaminant Summary Statistics
  - Number of Valid Samples and Percent Valid Data
  - Arithmetic and Geometric Means
  - Max Sampling Results
- Summary of Exceedances of All Applicable Limits (incl. Ontario AAQCs and CAAQS)

The purpose of the Ambient Air Quality Monitoring Program is to quantify the potential air quality effects associated with mining activities. The Program is conducted in accordance with the Site's Amended Environmental Compliance Approval (ECA) No. 0412-A2LR4V, issued on September 24, 2015, and the MECP Program Approval Letter, dated November 9, 2016.

The Program consists of three (3) sampling stations established in May 2015:

- South-west of the Site near McMillan Road along the realigned Highway 600 (Tait Road Station);
- North-east of the Site along Gallinger Road (Gallinger Road Station); and
- North-west monitoring station.

These sampling stations consist of:

- One (1) High Volume (Hi-Vol) Sampler for discrete sampling of total suspended particulate (TSP) and metals;
- One (1) PQ200 Sampler for discrete sampling of respirable particulate matter (PM<sub>2.5</sub>);
- One (1) passive dustfall collection unit for sampling dustfall; and

- One (1) passive sampling enclosure for sampling nitrogen dioxide (NO<sub>2</sub>) and sulphur dioxide (SO<sub>2</sub>).

## Section 2. MONITORING STATIONS

The ambient air quality monitoring stations were sited in accordance with the criteria stipulated in the Operations Manual (2019).

Universal Transverse Mercator (UTM) co-ordinates for each station based on the NAD83 co-ordinate system are presented in **Table 2-1**. The stations are shown in **Figure 2-1** through **Figure 2-7** below.

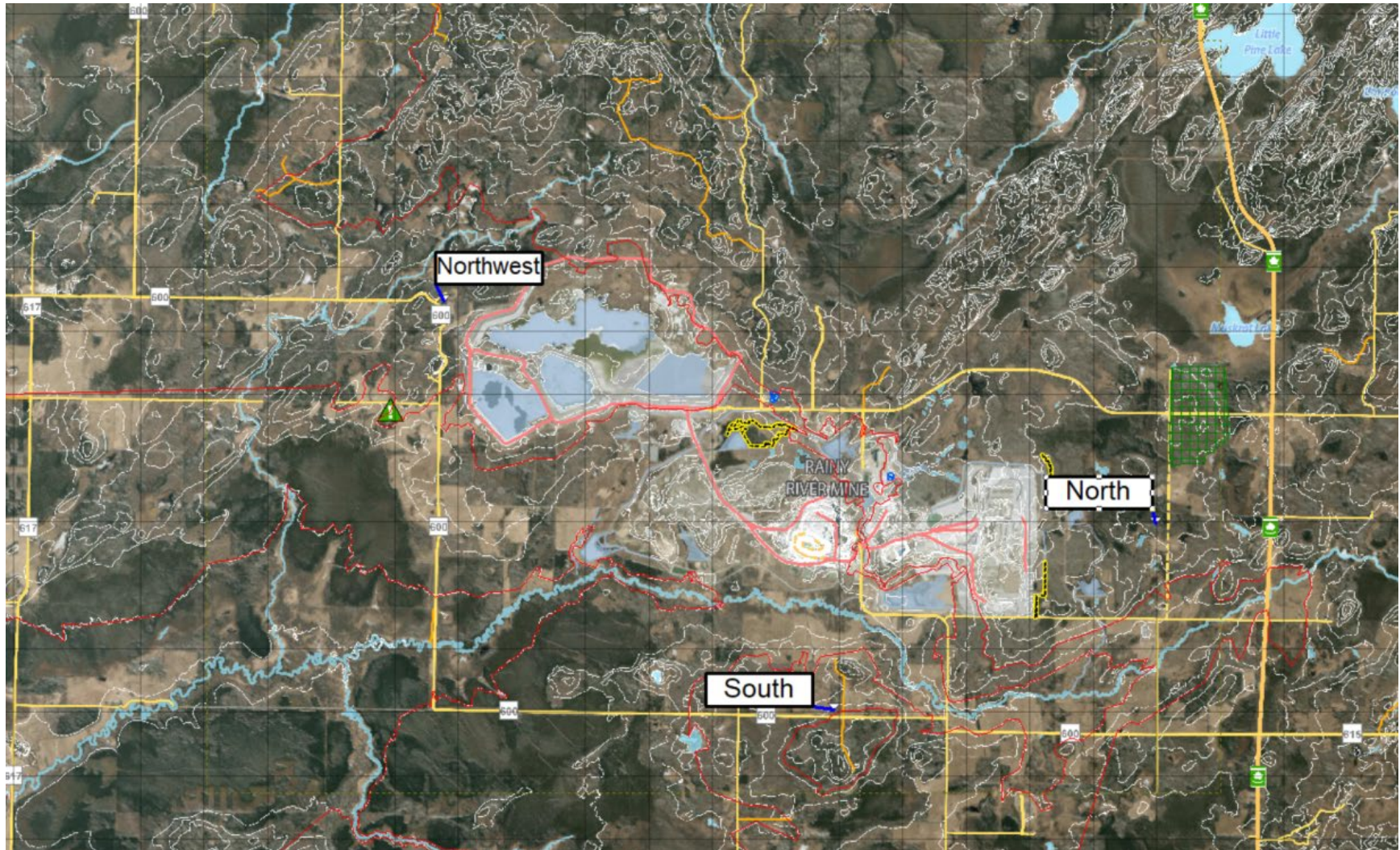
*Table 2-1. Ambient Air Monitoring Stations*

| Station                            | UTM Co-ordinates |              |      | Parameters Monitored   |
|------------------------------------|------------------|--------------|------|--|
|                                    | Easting (m)      | Northing (m) | Zone |  |
| Tait Road (Southwest Station)      | 426 072          | 5 406 996    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Gallinger Road (Northeast Station) | 431 133          | 5 410 534    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Northwest Station (TMA)            | 419 797          | 5 413 042    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall                                    |

### 2.1 METEOROLOGICAL STATION

Barron Site, located near Heatwole Road, contains a meteorological station that provides real-time wind speed, wind direction, temperature, relative humidity, precipitation, and solar radiation data. All measurements taken at this Site are taken at a height of ten (10) meters above grade.





*Figure 2-1. Ambient Air Monitoring Station Locations*



Figure 2-2. Tait Road Station Siting



Figure 2-3. Gallinger Road Station Siting



*Figure 2-4. Tait Road Station Detailed View*



Figure 2-5. Northwest Station Siting

## Section 3. ANALYTICAL METHODS

### 3.1 TOTAL SUSPENDED PARTICULATE MATTER (TSP) AND METALS

24-hour average TSP and metal samples were collected as specified in the Operations Manual. Samples were collected every sixth (6<sup>th</sup>) day, as per the U.S. EPA Sampling Schedule (United States Environmental Protection Agency, 2020).

TSP and metal samples were collected using High Volume (Hi-Vol) Samplers with a brush motor and controlled mass flow. The samples are collected on an 8-inch by 10-inch Hi-Vol quartz filter.

TSP concentrations are determined using the standard gravimetric reference method described in Compendium Method IO-3.1 of the U.S. EPA's "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air" (1999).

The lowest detectable mass of TSP on the filter is 2,300 micrograms ( $\mu\text{g}$ ). A valid 24-hour sample volume for the Hi-Vol Sampler ranges between 1,468 and 1,794 cubic metres ( $\text{m}^3$ ). As such, the method detection limit (MDL) for TSP ranges between 1.28 and 1.57 micrograms per cubic metre ( $\mu\text{g}/\text{m}^3$ ).

Metal concentrations are determined using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP/AES) based on Compendium Method IO-3.5 (U.S. EPA, 1999). The metals and metalloids (elements with both metallic and non-metallic properties) analyzed include arsenic (As), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), manganese (Mn), nickel (Ni), selenium (Se), vanadium (V), and zinc (Zn).

The total volume of each sample is calculated using methods recommended by the sampler manufacturer. These calculations account for ambient temperature and pressure, sampler flow rate, and individual monitor specifications. The calculations are not corrected for humidity.

### 3.2 RESPIRABLE PARTICULATE MATTER ( $\text{PM}_{2.5}$ )

Respirable particulate samples are collected at the same time as TSP samples (every sixth day, as per the EPA Sampling Schedule).

Samples are collected using PQ200 Samplers over a 24-hour period to align with the averaging time for the Canadian Ambient Air Quality Standard (CAAQS). The samples are collected on a 47-millimetre (mm) diameter polytetrafluoroethylene (PTFE; Teflon) filter.

$\text{PM}_{2.5}$  concentrations are determined using the standard gravimetric reference method outlined in the U.S. EPA's "Quality Assurance Guidance Document 2.12: Monitoring  $\text{PM}_{2.5}$  in Ambient Air Using Designated Reference or Class I Equivalent Methods" (U.S. EPA, 2016).

The lowest detectable mass of  $\text{PM}_{2.5}$  on the Teflon filter is 15 micrograms ( $\mu\text{g}$ ). Based on a valid 24-hour sample volume ranging between 21.6 and 26.4  $\text{m}^3$ , the MDL for  $\text{PM}_{2.5}$  ranges between 0.9 and 16.7  $\mu\text{g}/\text{m}^3$ .

Total sample volume is recorded mechanically by the PQ200 Samplers.

### 3.3 TOTAL DUSTFALL

Total dustfall deposition samples are collected over a 30-day period using standard plastic dustfall sampler jars with four (4) millimetre (mm) polyethylene liners. The dustfall jars are treated with an algaecide to prevent algal growth during the summer and alcohol to prevent freezing during the winter.

The sample jars measure roughly 15.4-centimetres (cm) in diameter by 30.5 cm in height.

The water soluble and insoluble portions of dustfall are determined by gravimetric analysis using the method described in Section G of British Columbia Ministry of the Environment's "Air Constituents – Inorganic" (British Columbia Ministry of the Environment, 2020).

Metal concentrations within the dustfall samples are determined using Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) in accordance with U.S. EPA's Method 6020A (SW-846) (U.S. EPA, 1998). The metals and metalloids sampled include aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), bismuth (Bi), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), phosphorus (P), potassium (K), selenium (Se), silicon (Si), silver (Ag), sodium (Na), strontium (Sr), thallium (Tl), tin (Sn), titanium (Ti), uranium (U), vanadium (V), and zinc (Z).

The analysis method employed for total dustfall has an MDL of 0.3 grams per square metre per 30 days ( $\text{g}/\text{m}^2/30$  days).

### 3.4 PASSIVE SAMPLING FOR SO<sub>2</sub> AND NO<sub>2</sub>

Sulphur dioxide (SO<sub>2</sub>) and nitrogen dioxide (NO<sub>2</sub>) concentrations are monitored by passive monitoring devices over a 30-day exposure period. As such, sample uptake depends on temperature, relative humidity, and wind speed. To account for this, analytical results are adjusted based on the monthly averages for these meteorological parameters throughout the exposure period. The required meteorological data are obtained by Maxxam Analytics from the Environment and Climate Change Canada website for the Fort Frances meteorological station (Climate ID 6022474) with each sample submission.

Since there is currently no MECP guidance on 30-day passive sampling of NO<sub>2</sub> or SO<sub>2</sub>, sampling is performed using the methodology developed, approved, and validated by Alberta Environment with the support of the Alberta Research Council, the Clean Air Strategic Alliance of Alberta, and the National Research Council of Canada (Bari, Curran, & Kindzierski, 2015).

For both SO<sub>2</sub> and NO<sub>2</sub>, the analytical MDL is on the order of 0.1 parts per billion by volume (ppbv). Validation tests conducted in Alberta show that results from passive sampling are typically within ten percent (10%) of those obtained from sampling with continuous analyzers for 30-day exposure periods (2015).

Since there are no MECP guidelines for monthly concentrations of SO<sub>2</sub> or NO<sub>2</sub> obtained from passive sampling, this data is used solely for screening purposes.

For NO<sub>2</sub>, the monthly results are compared against Ontario's 24-hour AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day (720-hour) average (78 µg/m<sup>3</sup>) using the methodology outlined in the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (Ontario Ministry of the Environment, Conservation and Parks, 2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta's 30-day Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).



## Section 4. MONITORING METHODS

### 4.1 HI-VOL AND PQ200 SAMPLERS

Stations are visited every six days to take samples for TSP, metals, and PM<sub>2.5</sub>. The exposed filter is recovered, and a pre-weighed filter is installed for the subsequent sample run.

Additional visits are made to the stations, as required, to resolve instrumentation issues, perform flow calibration checks, and preventative/proactive maintenance. All calibrations are performed in accordance with manufacturer specifications.

Flow calibrations are performed at least once per quarter by New Gold staff on the Hi-Vol TE-5170 Samplers using a Tisch Delta Calibration kit. The flow is calibrated to a flow rate of 1,133 litres per minute (LPM), which produces a sample volume of 1,632 m<sup>3</sup> in a 24-hour period.

Flow, temperature, and pressure calibrations are performed at least once per quarter by New Gold staff on the PQ200 Samplers using an electronic BGI Flow Calibrator. The flow is calibrated to a flow rate of 16.7 LPM, which produces a sample volume of 24 m<sup>3</sup> in a 24-hour period.

**Table 4-1** below outlines the dates on which calibrations were performed on the Hi-Vol and PQ200 Samplers in this quarter. Calibration sheets for the samplers can be found in **Appendix D**. For PQ200 Samplers, flow rate, temperature and pressure verification are performed monthly.

**Table 4-1. Sampler Calibration Dates**

| Station                        | Hi-Vol Sampler Calibration Date                                   | PQ200 Sampler Calibration Date  |
|--------------------------------|---|---------------------------------|
| Tait Road (South Station)      | January 4 <sup>th</sup> , 2023, and April 17 <sup>th</sup> , 2023 |                                 |
| Gallinger Road (North Station) | January 4 <sup>th</sup> , 2023                                    |                                 |
| Northwest Station (TMA)        | January 5 <sup>th</sup> , 2023                                    | January 28 <sup>th</sup> , 2023 |

### 4.2 DUSTFALL SAMPLERS

The dustfall samplers containing algaecide are changed monthly to correspond with the 30-day exposure period.

Dustfall jars are provided by the laboratory with screw-on lids to prevent sample loss during transport.

### 4.3 PASSIVE SAMPLERS

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.

Filters are kept in cassettes inside Ziploc bags until deployment to prevent premature exposure. After the sample is collected, the filter is placed back into the cassette and back into the Ziploc bag for shipment to the lab.

## Section 5. SAMPLING ISSUES

### 5.1 PERFORMANCE AND SITE AUDITS

There were no MECP audits in Q1.

### 5.2 EQUIPMENT AND SAMPLING ISSUES

There were twenty-four (24) samples invalidated in this quarter, as described in the table below and in **Appendix E**.

*Table 5-1. Q1 Invalidated Samples*

| Sample Date  | Station          | Contaminant | Reasoning   |
|--|------------------|-------------|---|
| January 6 <sup>th</sup> , 2023                           | Tait Road        | TSP         | Sample volume was below the lower volume limit                |
| January 18 <sup>th</sup> , 2023                          | Tait Road, North | TSP         | Sample volume was above the maximum volume limit              |
| January 24 <sup>th</sup> , 2023                          | Tait Road        | TSP         | Sample volume was above the maximum volume limit              |
| January 24 <sup>th</sup> , 2023                          | North            | TSP         | Sample volume was below the lower volume limit                |
| January 30 <sup>th</sup> , 2023                          | Tait Road        | TSP         | Sample volume was above the maximum volume limit              |
| February 11 <sup>th</sup> , 2023                         | Northwest        | TSP         | Sample volume was below the lower volume limit                |
| February 17 <sup>th</sup> , 2023                         | North            | TSP         | Sample volume was below the lower volume limit                |
| February 23 <sup>rd</sup> , 2023                         | North            | TSP         | Sample volume was below the lower volume limit                |
| March 1 <sup>st</sup> , 2023                             | Tait Road        | TSP         | Sample volume was above the maximum volume limit              |
| March 1 <sup>st</sup> , 2023                             | North            | TSP         | Sample volume was below the lower volume limit                |
| March 13 <sup>th</sup> , 2023                            | Tait Road        | TSP         | Sample volumes was above the maximum volume limit             |
| March 13 <sup>th</sup> , 2023                            | North            | TSP         | Sample volume was below the lower volume limit                |
| March 25 <sup>th</sup> , 2023                            | Tait Road        | TSP         | Sample volumes was above the maximum volume limit             |
| March 25 <sup>th</sup> , 2023                            | Northwest        | TSP         | Sample volume was below the lower volume limit                |
| February 5 <sup>th</sup> – March 25 <sup>th</sup> , 2023 | Northwest        | PM2.5       | Sampler did not record sample volume as it was out for repair |

## Section 6. SAMPLING RESULTS

Sampling results for Q1 are presented in **Section 6.1** and **Appendix A-1** for TSP and metals, **Section 6.2** and **Appendix A-1** for PM<sub>2.5</sub>, **Section 6.3** and **Appendices A-2** and **A-3** for total dust fall, and **Section 6.4** and **Appendix A-4** for passive SO<sub>2</sub> and NO<sub>2</sub>.

In performing statistical analyses, as per the Operations Manual, a value of half the method detection limit is substituted for concentrations that are reported below the method detection limit. Laboratory Certificates of Analysis for all samples collected in Q1 are provided in **Appendix C**.

For comparative purposes, the Ontario AAQC and Canadian AAQS values are presented, where available. It is important to note that the Ontario AAQCs are equivalent to the standards prescribed by *Ontario Regulation 419/05: Air Pollution – Local Air Quality* (Government of Ontario, 2019).

Q1 presented fourteen (14) possible sampling days between January 1, 2023, and March 31, 2023, for the 6-day sampling schedule. Summaries of the analyses for TSP, metals, and PM<sub>2.5</sub> are presented in **Table 6-1**, **Table 6-2**, and **Table 6-3**, respectively.

Summaries of the analyses for total dustfall (incl. metals) and passive SO<sub>2</sub> and NO<sub>2</sub> are presented in **Table 6-4**, **Table 6-5**, **Table 6-6**, and **Table 6-7**.

### 6.1 TSP AND METALS

In this quarter, the Gallinger Road Station collected eight (8) valid samples (57% valid data). The Northwest Station collected twelve (12) valid samples (86% valid data), while the Tait Road Station collected seven (7) valid samples (50% valid). Since the data for all stations are below the 90% valid data threshold, statistical analyses for TSP and metals are computed using all data, including invalid samples.

For this quarter, the arithmetic mean TSP concentration was 41.06 µg/m<sup>3</sup> at the Tait Road Station, 32.85 µg/m<sup>3</sup> at the Gallinger Road Station, and 14.07 µg/m<sup>3</sup> at the Northwest Station. Geometric means for the three stations were 23.07 µg/m<sup>3</sup>, 24.83 µg/m<sup>3</sup>, and 12.11 µg/m<sup>3</sup>, respectively.

The maximum 24-hour concentration for TSP was 162.99 µg/m<sup>3</sup> at the Tait Road Station on March 1<sup>st</sup>, 89.22 µg/m<sup>3</sup> at the Gallinger Road Station on March 1<sup>st</sup>, and 28.75 µg/m<sup>3</sup> at the Northwest Station on January 18<sup>th</sup>, 2023.

Laboratory data are provided as the mass of contaminant on the filter, in micrograms. This is divided by the total sample volume measured by the Hi-Vol Sampler to determine the concentration of the contaminant in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there were two samples at Tait Road that exceeded the TSP AAQC (120 µg/m<sup>3</sup>).

Data is summarized for TSP and metals in **Table 6-1** and **Table 6-2**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1**, **Figure 6-1**, and **Figure 6-2**.

**Table 6-1. TSP Summary Statistics. Concentrations presented in  $\mu\text{g}/\text{m}^3$ .**

|                             | Tait Road Station | Gallinger Road Station | Northwest Station |
|-----------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples     | 7                 | 8                      | 12                |
| % Valid Data                | 50%               | 57%                    | 86%               |
| Arithmetic Mean             | 41.06             | 32.85                  | 14.07             |
| Geometric Mean              | 23.07             | 24.83                  | 12.11             |
| 24-Hour Maximum             | 162.99            | 89.22                  | 28.75             |
| 24-Hour Minimum             | 2.73              | 6.20                   | 4.74              |
| January Maximum             | 23.90             | 19.29                  | 28.75             |
| February Maximum            | 62.71             | 85.58                  | 13.31             |
| March Maximum               | 162.99            | 89.22                  | 26.36             |
| 90 <sup>th</sup> Percentile | 125.28            | 78.47                  | 25.33             |
| 95 <sup>th</sup> Percentile | 155.91            | 86.85                  | 27.20             |
| TSP AAQC                    | 120               | 120                    | 120               |
| Samples > TSP AAQC          | 2                 | 0                      | 0                 |
| Samples > Metal AAQC        | 0                 | 0                      | 0                 |

**Table 6-2. Maximum Concentrations of Metals. Concentrations presented in  $\mu\text{g}/\text{m}^3$ .**

| Metal | 24-Hour AAQC | Tait Road Station     |                  | Gallinger Road Station |                  | Northwest Station     |                  |
|-------|--------------|-----------------------|------------------|------------------------|------------------|-----------------------|------------------|
|       |              | Maximum Concentration | Fraction of AAQC | Maximum Concentration  | Fraction of AAQC | Maximum Concentration | Fraction of AAQC |
| As    | 0.3          | 2.88E-03              | 0.96%            | 1.20E-03               | 0.40%            | 1.03E-03              | 0.34%            |
| Cd    | 0.025        | 7.87E-04              | 3.15%            | 8.03E-04               | 3.21%            | 6.87E-04              | 2.75%            |
| Cr    | 0.5          | 1.16E-02              | 2.32%            | 9.94E-03               | 1.99%            | 5.62E-03              | 1.12%            |
| Co    | 0.1          | 1.33E-03              | 1.33%            | 8.03E-04               | 0.80%            | 6.87E-04              | 0.69%            |
| Cu    | 50           | 3.75E-01              | 0.75%            | 1.48E-01               | 0.30%            | 2.79E-01              | 0.56%            |
| Fe    | 4            | 3.09E+00              | 77.34%           | 2.19E+00               | 54.87%           | 1.36E+00              | 33.92%           |
| Pb    | 0.5          | 1.49E-02              | 2.97%            | 1.12E-02               | 2.24%            | 1.03E-03              | 0.21%            |
| Mn    | 0.4          | 1.31E-01              | 32.85%           | 6.00E-02               | 14.99%           | 3.60E-02              | 9.01%            |
| Ni    | 0.2          | 1.19E-02              | 5.93%            | 1.17E-02               | 5.85%            | 3.17E-03              | 1.58%            |
| Se    | 10           | 3.94E-03              | 0.04%            | 4.02E-03               | 0.04%            | 3.44E-03              | 0.03%            |
| V     | 2            | 4.55E-03              | 0.23%            | 2.01E-03               | 0.10%            | 1.72E-03              | 0.09%            |
| Zn    | 120          | 1.17E-01              | 0.10%            | 6.23E-02               | 0.05%            | 1.83E-02              | 0.02%            |

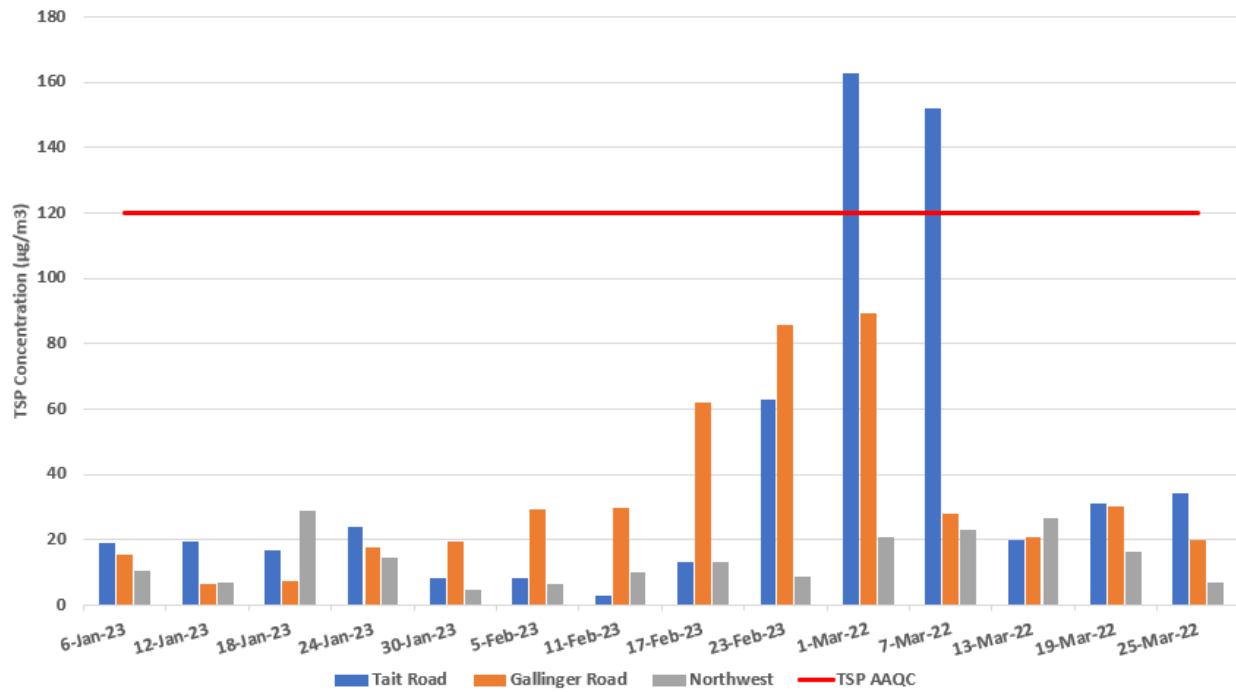
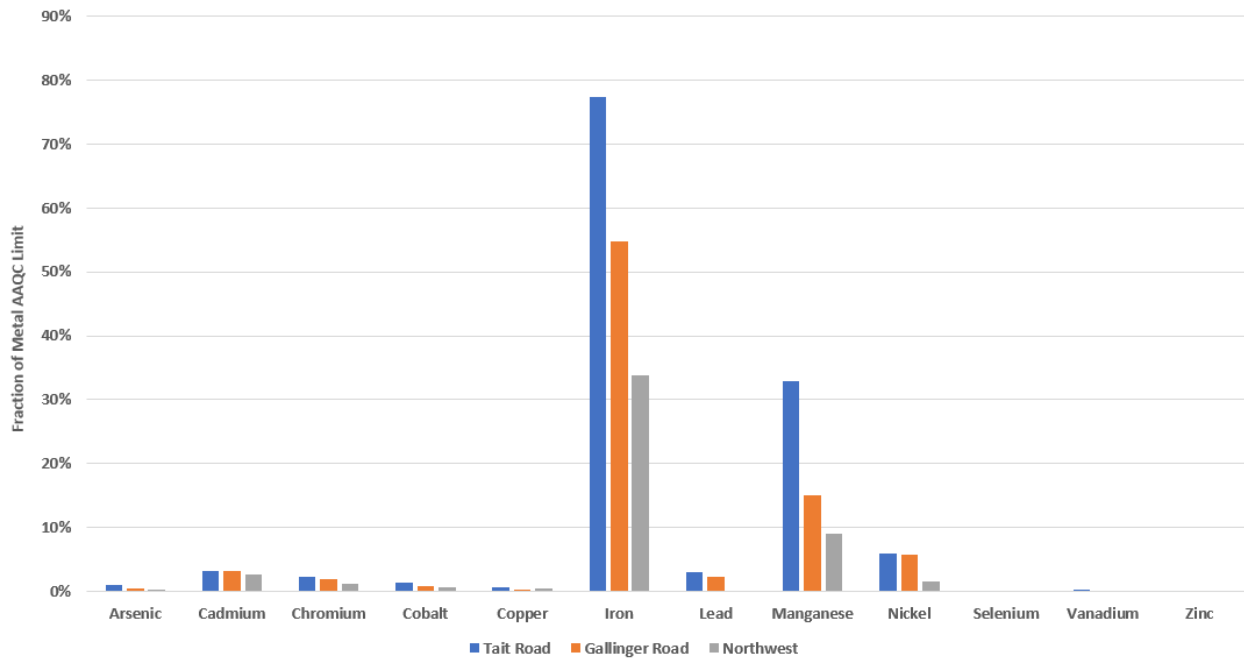


Figure 6-1. TSP Sampling Results



**Figure 6-2. Max Metal Sampling Result as a Fraction of Metal AAQC**

## 6.2 PM<sub>2.5</sub>

In this quarter, the Tait Road Station and Gallinger Road Station collected fourteen (14) valid samples, which represents 100% valid data. Northwest Station collected four (4) valid samples which represents 29% valid data.

For this quarter, the arithmetic mean for the PM<sub>2.5</sub> concentrations were 3.58 µg/m<sup>3</sup>, 3.09 µg/m<sup>3</sup>, and 1.99 µg/m<sup>3</sup> for the Tait Road Station, Gallinger Road Station, and Northwest Station, respectively.

The maximum 24-hour concentrations for PM<sub>2.5</sub> were 5.66 µg/m<sup>3</sup> at the Tait Road Station on March 7<sup>th</sup>, 5.87 µg/m<sup>3</sup> at the Gallinger Road Station on February 5<sup>th</sup>, and 3.78 µg/m<sup>3</sup> at the Northwest Station on January 6<sup>th</sup>, 2023.

Laboratory data is provided as the mass of PM<sub>2.5</sub> on the filter, in micrograms. This value is divided by the total sample volume measured by the PQ200 Sampler to determine the concentration of PM<sub>2.5</sub> in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was no sample that exceeded the PM<sub>2.5</sub> AAQC or CAAQS (27 µg/m<sup>3</sup>).

Data is summarized for PM<sub>2.5</sub> in **Table 6-3**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1** and **Figure 6-3**.

**Table 6-3. PM<sub>2.5</sub> Summary Statistics. Concentrations presented in µg/m<sup>3</sup>.**

|                                  | <b>Tait Road Station</b> | <b>Gallinger Road Station</b> | <b>Northwest Station</b> |
|----------------------------------|--------------------------|-------------------------------|--------------------------|
| Number of Valid Samples          | 14                       | 14                            | 4                        |
| % Valid Data                     | 100%                     | 100%                          | 29%                      |
| Arithmetic Mean                  | 3.58                     | 3.09                          | 1.99                     |
| Geometric Mean                   | 3.40                     | 2.90                          | 1.37                     |
| 24-Hour Maximum                  | 5.66                     | 5.87                          | 3.78                     |
| 24-Hour Minimum                  | 1.87                     | 1.50                          | 0.31                     |
| Jan Maximum                      | 3.87                     | 4.03                          | 3.78                     |
| Feb Maximum                      | 5.00                     | 5.87                          | 0.00                     |
| March Maximum                    | 5.66                     | 4.62                          | 0.00                     |
| 90 <sup>th</sup> Percentile      | 5.26                     | 4.44                          | 3.50                     |
| 95 <sup>th</sup> Percentile      | 5.47                     | 5.06                          | 3.64                     |
| PM <sub>2.5</sub> AAQC           | 27                       | 27                            | 27                       |
| Samples > PM <sub>2.5</sub> AAQC | 0                        | 0                             | 0                        |
| MDL (µg)                         | 15                       | 15                            | 15                       |
| Samples < MDL                    | 0                        | 0                             | 0                        |

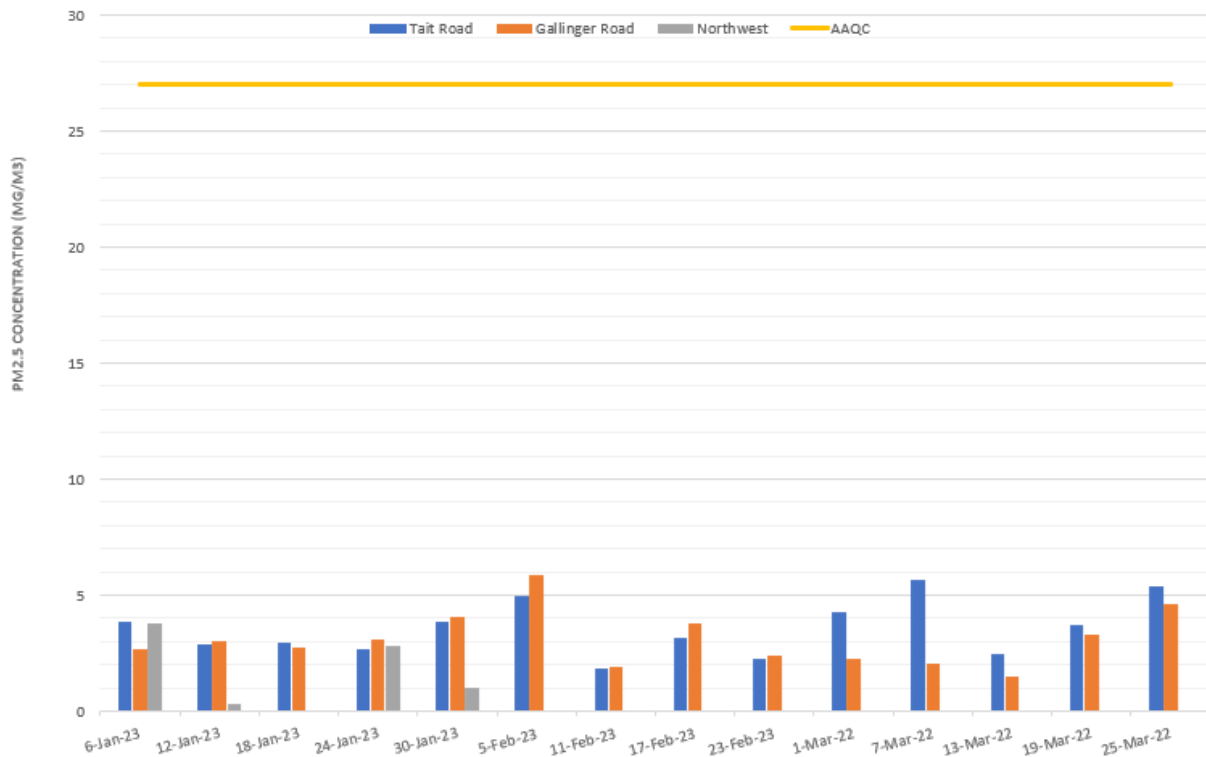


Figure 6-3. PM<sub>2.5</sub> Sampling Results

### 6.3 TOTAL DUSTFALL

New Gold operates three (3) ambient monitoring stations that measure 30-day dustfall levels: Tait Road, Gallinger Road, and Northwest.

In this quarter, the Tait Road, Gallinger Road, and the Northwest stations collected three (3) valid samples (100% valid data).

Laboratory data is provided as the mass of dustfall on the filter per square decimeter per day, in milligrams per decimeter square per day. This value is then converted to the appropriate units for reporting using the equation seen below:

$$Concentration \left( \frac{g}{m^2 \cdot 30 \text{ days}} \right) = Lab \text{ Concentration} \left( \frac{mg}{dm^2 \cdot day} \right) \times \frac{1 g}{1000 mg} \times \frac{100 dm^2}{1 m^2} \times \frac{30 \text{ days}}{30 \text{ days}}$$

During the laboratory analysis, total dustfall is speciated into soluble and insoluble portions, as well as fixed and volatile portions. The fixed portion of total dustfall is the portion of the total dustfall that remains after the sample is ignited at 550°C. The mass of the sample lost during ignition represents the volatile portion. In the summer months (i.e., Q2 and Q3), the volatile portion of the dustfall is largely made up of large, organic particles (e.g., leaves, twigs, bugs, etc.) that are deposited and retained in the sample. As a result, the total dustfall may overestimate the actual dustfall mass in the sample. For this reason, the analysis of dustfall shows both fixed



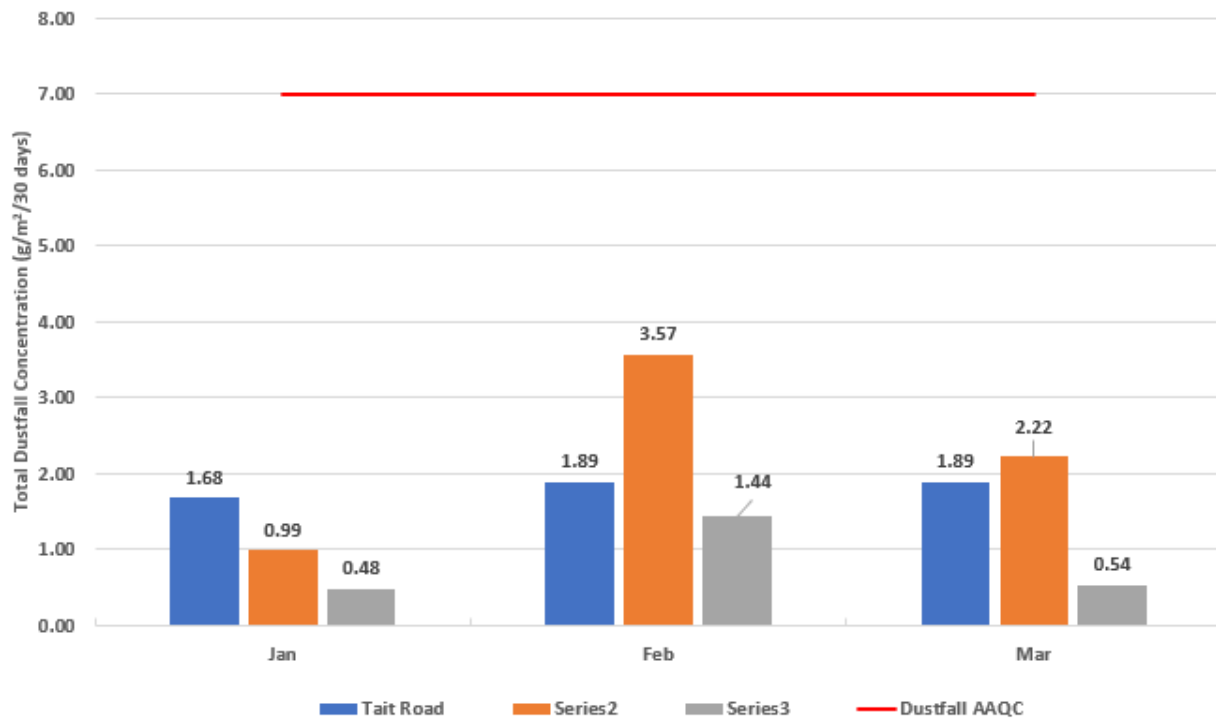
dustfall and total dustfall. The total dustfall versus fixed dustfall masses are compared in **Figure 6-5** and **Figure 6-6**.

In this quarter, there were no samples that exceeded the total dustfall 30-day Ontario AAQC (7 g/m<sup>2</sup>/30 days).

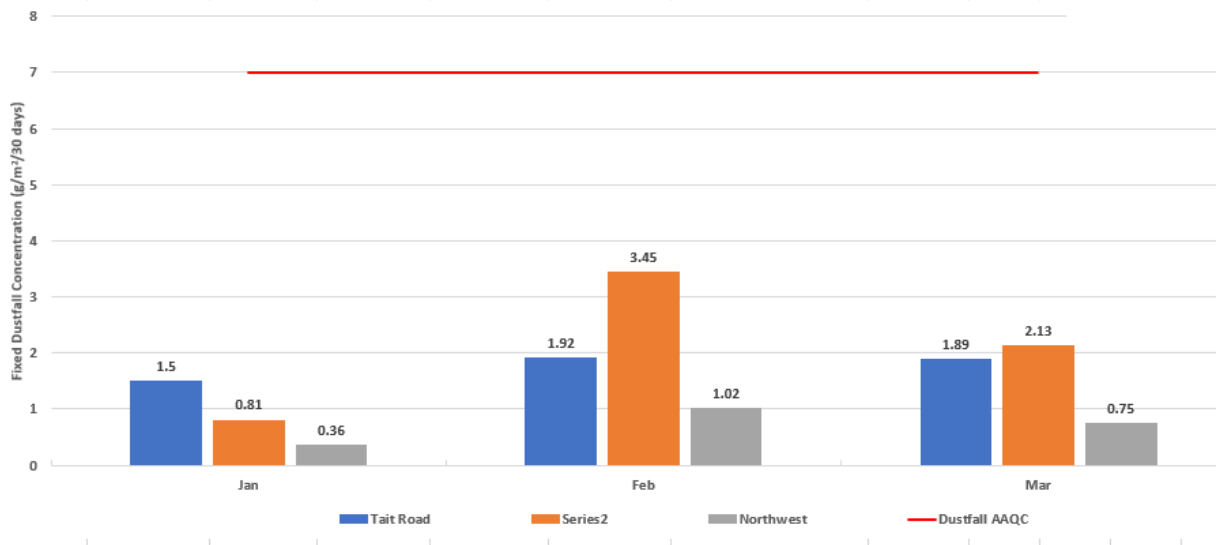
Data is summarized for total dustfall in **Table 6-4**. Sample data from all runs and further statistical analyses are presented in **Appendix A-2**.

**Table 6-4. Total Dustfall Summary Statistics.**  
Concentrations presented in g/m<sup>2</sup>/30 days.

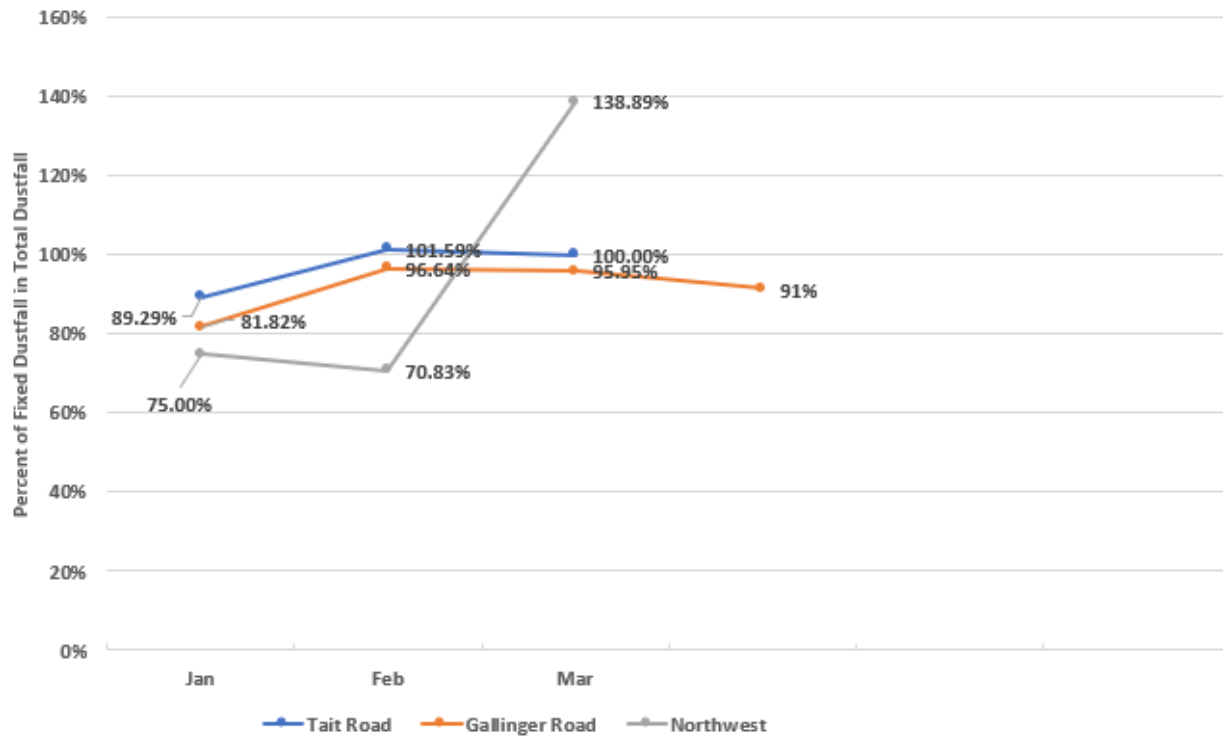
|                         | Tait Road Station | Gallinger Road Station | Northwest Station |
|-------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples | 3                 | 3                      | 3                 |
| % Valid Data            | 100%              | 100%                   | 100%              |
| Arithmetic Mean         | 1.82              | 2.26                   | 0.82              |
| Monthly Maximum         | 1.89              | 3.57                   | 1.44              |
| Dustfall AAQC           | 7                 | 7                      | 7                 |
| Samples > Dustfall AAQC | 0                 | 0                      | 0                 |
| Samples < MDL           | 0                 | 0                      | 0                 |



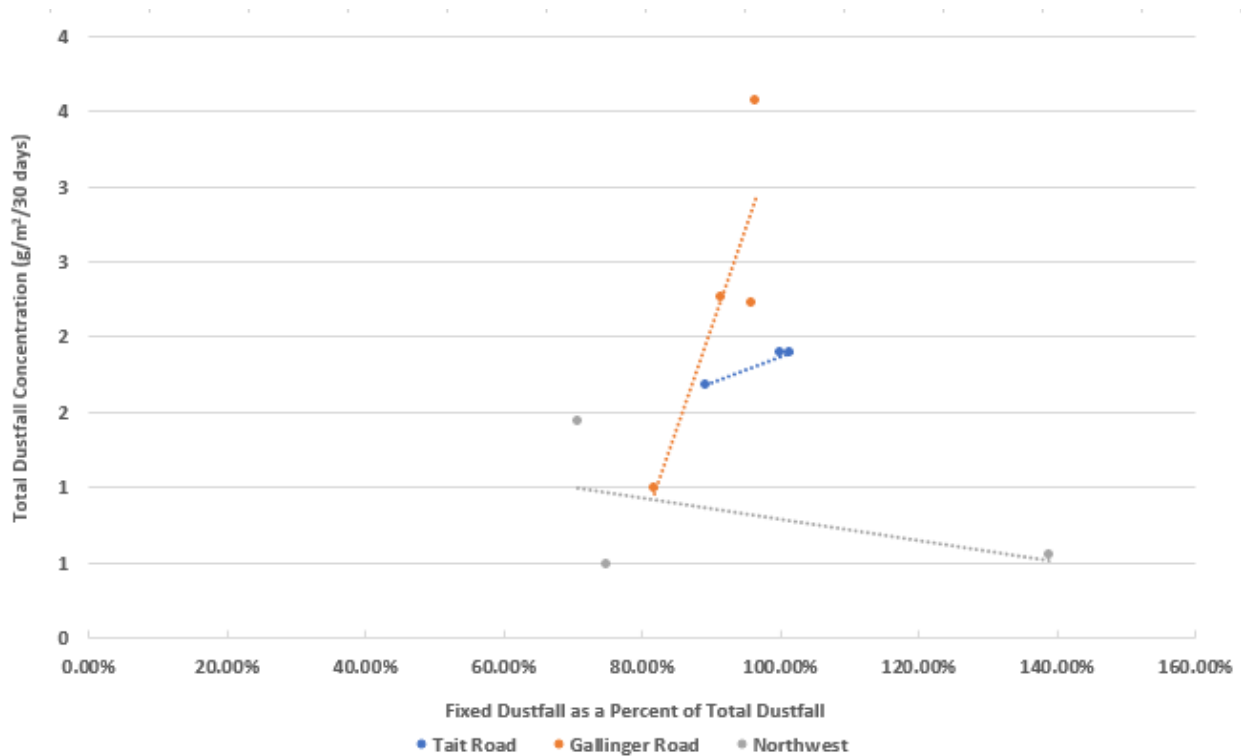
**Figure 6-3. Total Dustfall Sampling Results at POI Stations**



**Figure 6-4. Fixed Dustfall Sampling Results at POI Stations**



**Figure 6-5. Percent of Fixed Dustfall in Total Dustfall**



**Figure 6-6. Fixed Dustfall Fraction vs. Total Dustfall Concentration**

## 6.4 PASSIVE SO<sub>2</sub> AND NO<sub>2</sub>

The Tait Road and Gallinger Road Stations collected three (3) valid samples out of a possible three (3) sampling opportunities (100% valid data) in this quarter.

There are no MECP standards, guidelines, or Ontario AAQCs for SO<sub>2</sub> or NO<sub>2</sub> for a 30-day averaging period. Instead, the 30-day measured average SO<sub>2</sub> or NO<sub>2</sub> concentrations allow for future analysis of trends in the ambient concentrations, identification of notable increases, and comparison with dispersion modelling results.

For NO<sub>2</sub>, the monthly results are compared against Ontario’s 24-hour NO<sub>2</sub> AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day average (78 µg/m<sup>3</sup>) using the methodology outlined in Table 7-1 of the MECP’s “Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report” (2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta’s 30-day SO<sub>2</sub> Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).

For this quarter, the arithmetic mean SO<sub>2</sub> concentration was 0.48 µg/m<sup>3</sup> at the Tait Road and 0.48 µg/m<sup>3</sup> at the Gallinger Road Stations. The arithmetic mean NO<sub>2</sub> concentrations were 0.81 µg/m<sup>3</sup> and 0.94 µg/m<sup>3</sup> at the Tait Road and Gallinger Road Stations, respectively.

The maximum monthly concentrations of SO<sub>2</sub> were 0.79 µg/m<sup>3</sup> for the Tait Road and Gallinger Road stations in all three (3) samples. The maximum monthly concentration of NO<sub>2</sub> was 1.32 µg/m<sup>3</sup> at the Tait Road Station in January and 1.50 µg/m<sup>3</sup> at the Gallinger Road Station in February.

Laboratory data is provided as the concentration of the contaminant in the sample, in parts per billion by volume. This value is then converted to the appropriate units for reporting using the equation seen below:

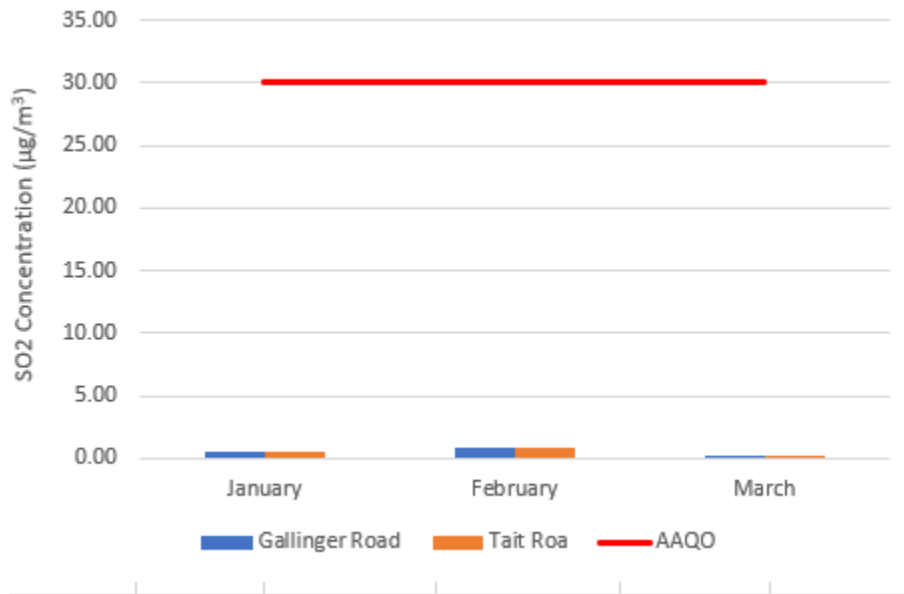
$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \text{Lab Concentration } (\text{ppbv}) \times \frac{\text{Molecular Weight}}{\text{Molar Volume}}$$

In this quarter, there were no samples that exceeded the converted 24-hour NO<sub>2</sub> Ontario AAQC (78 µg/m<sup>3</sup>), and no samples that exceeded the 30-day Alberta SO<sub>2</sub> AAQO (30 µg/m<sup>3</sup>).

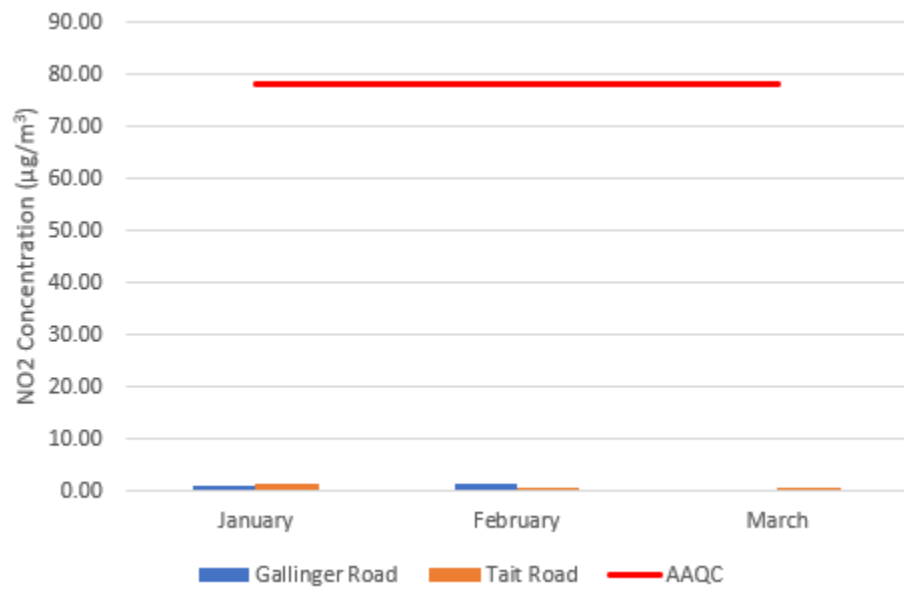
Data is summarized for SO<sub>2</sub> and NO<sub>2</sub> in **Table 6-7**. Sample data from all runs and further statistical analyses are presented in **Appendix A-4**.

**Table 6-5: Summary Statistics for SO<sub>2</sub> and NO<sub>2</sub>.  
Concentrations presented in µg/m<sup>3</sup>.**

|                         | Tait Road Station |                 | Gallinger Road Station |                 |  |
|-------------------------|-------------------|-----------------|------------------------|-----------------|--|
|                         | SO <sub>2</sub>   | NO <sub>2</sub> | SO <sub>2</sub>        | NO <sub>2</sub> |  |
| Number of Valid Samples | 3                 | 3               | 3                      | 3               |  |
| % Valid Data            | 100%              | 100%            | 100%                   | 100%            |  |
| Arithmetic Mean         | 0.48              | 0.81            | 0.48                   | 0.94            |  |
| Monthly Maximum         | 0.79              | 1.32            | 0.79                   | 1.50            |  |
| Limit                   | 30                | 78              | 30                     | 78              |  |
| Samples > Limit         | 0                 | 0               | 0                      | 0               |  |
| MDL                     | 0.26              | 0.19            | 0.26                   | 0.19            |  |
| Samples < MDL           | 0                 | 0               | 0                      | 0               |  |



**Figure 6-5. SO<sub>2</sub> Monitoring Results**



**Figure 6-8. NO<sub>2</sub> Monitoring Results**

**Section 7. MITIGATION MEASURES**

No mitigation measures have been implemented at this time.

## **Section 8. CONCLUSION**

The Rainy River Mine Ambient Air Quality Monitoring Program was conducted in the first quarter of 2023 in accordance with the Site's Amended Environmental Compliance Approval (ECA) Number 0412-A2LR4V and the MECP Program Approval Letter.

Samples were taken every sixth (6<sup>th</sup>) day for total suspended particulate matter (TSP), metals, and respirable particulate matter (PM<sub>2.5</sub>). Samples were taken monthly for total dustfall, sulphur dioxide (SO<sub>2</sub>), and nitrogen dioxide (NO<sub>2</sub>).

These samples were sent out for analysis in accordance with the methods prescribed in the Operations Manual.

There were two (2) exceedances of the TSP limit on March 1<sup>st</sup> and March 7<sup>th</sup> 2023.



## Section 9. REFERENCES

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## Section 10. CLOSING

The *Rainy River Mine Ambient Air Quality Monitoring Program First Quarter 2023 Report* was prepared by New Gold Inc. The quality of information, conclusions, and estimates contained herein are based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this document.

If you require further information regarding the above, or the Mine in general, please contact the undersigned at 1(807) 234-8170.

Sincerely,

New Gold Inc.

Rainy River Mine

Prepared By:

Garnet Cornell

Environment Manager

# APPENDIX A: SAMPLING RESULTS

Appendix A-1 TSP, Metals, and PM<sub>2.5</sub> Sampling Results

Appendix A-2 Total Dustfall Sampling Results

Appendix A-3 SO<sub>2</sub> and NO<sub>2</sub> Passive Sampling Results

**APPENDIX A-1:**  
**TSP, METALS, AND PM<sub>2.5</sub> SAMPLING RESULTS**

**Tait Road Station Monitoring Results**

(Concentrations expressed in µg/m<sup>3</sup>)

| Date                      | TSP    | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
|---------------------------|--------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| 6-Jan-23                  |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 3.83              |
| 12-Jan-23                 | 19.60  | <u>8.42E-04</u> | <u>5.62E-04</u> | <u>1.40E-03</u> | <u>5.62E-04</u> | 1.97E-01 | 2.91E-01 | <u>8.42E-04</u> | 1.24E-02 | <u>8.42E-04</u> | <u>2.81E-03</u> | <u>1.40E-03</u> | 1.97E-02 | 2.91              |
| 18-Jan-23                 |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 2.96              |
| 24-Jan-23                 |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 2.70              |
| 30-Jan-23                 |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 3.87              |
| 5-Feb-23                  | 8.20   | <u>8.91E-04</u> | <u>5.94E-04</u> | <u>1.48E-03</u> | <u>5.94E-04</u> | 1.40E-01 | 1.75E-01 | <u>8.91E-04</u> | 6.12E-03 | <u>8.91E-04</u> | <u>2.97E-03</u> | <u>1.48E-03</u> | 1.21E-02 | 5.00              |
| 11-Feb-23                 | 2.73   | <u>8.89E-04</u> | <u>5.93E-04</u> | <u>1.48E-03</u> | <u>5.93E-04</u> | 1.49E-01 | 1.42E-01 | <u>8.89E-04</u> | 3.97E-03 | <u>8.89E-04</u> | <u>2.96E-03</u> | <u>1.48E-03</u> | 7.23E-03 | 1.87              |
| 17-Feb-23                 | 13.11  | <u>9.37E-04</u> | <u>6.24E-04</u> | <u>1.56E-03</u> | <u>6.24E-04</u> | 1.70E-01 | 4.27E-01 | <u>9.37E-04</u> | 1.28E-02 | <u>9.37E-04</u> | <u>3.12E-03</u> | <u>1.56E-03</u> | 1.54E-02 | 3.16              |
| 23-Feb-23                 | 62.71  | <u>9.31E-04</u> | <u>6.21E-04</u> | 4.22E-03        | <u>6.21E-04</u> | 2.28E-01 | 1.06E+00 | 5.71E-03        | 4.50E-02 | 5.40E-03        | <u>3.10E-03</u> | <u>1.55E-03</u> | 4.25E-02 | 2.25              |
| 1-Mar-23                  |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 4.25              |
| 7-Mar-23                  | 152.10 | 1.93E-03        | <u>5.85E-04</u> | 8.31E-03        | <u>5.85E-04</u> | 1.07E-01 | 2.17E+00 | 7.25E-03        | 8.31E-02 | 6.61E-03        | <u>2.92E-03</u> | 3.33E-03        | 4.84E-02 | 5.66              |
| 13-Mar-23                 |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 2.50              |
| 19-Mar-23                 | 31.17  | <u>1.00E-03</u> | <u>6.67E-04</u> | <u>1.67E-03</u> | <u>6.67E-04</u> | 1.26E-01 | 7.54E-01 | 4.47E-03        | 2.88E-02 | <u>1.00E-03</u> | <u>3.34E-03</u> | <u>1.67E-03</u> | 3.82E-02 | 3.75              |
| 25-Mar-23                 |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 5.37              |
| <b>Arithmetic Mean</b>    | 41.37  | 1.06E-03        | 6.07E-04        | 2.88E-03        | 6.07E-04        | 1.60E-01 | 7.17E-01 | 3.00E-03        | 2.75E-02 | 2.37E-03        | 3.03E-03        | 1.78E-03        | 2.62E-02 | 3.58              |
| <b>Geometric Mean</b>     | 20.84  | 1.02E-03        | 6.06E-04        | 2.24E-03        | 6.06E-04        | 1.55E-01 | 4.74E-01 | 1.97E-03        | 1.70E-02 | 1.56E-03        | 3.03E-03        | 1.70E-03        | 2.14E-02 | 3.40              |
| <b>Max Sample</b>         | 152.10 | 1.93E-03        | 6.67E-04        | 8.31E-03        | 6.67E-04        | 2.28E-01 | 2.17E+00 | 7.25E-03        | 8.31E-02 | 6.61E-03        | 3.34E-03        | 3.33E-03        | 4.84E-02 | 5.66              |
| <b>Min Sample</b>         | 2.73   | 8.42E-04        | 5.62E-04        | 1.40E-03        | 5.62E-04        | 1.07E-01 | 1.42E-01 | 8.42E-04        | 3.97E-03 | 8.42E-04        | 2.81E-03        | 1.40E-03        | 7.23E-03 | 1.87              |
| <b>AQC Limit</b>          | 120    | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27                |
| <b>AQC Limit</b>          | 1      | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 0                 |
| <b>Number of Samples</b>  | 7      | 7               | 7               | 7               | 7               | 7        | 7        | 7               | 7        | 7               | 7               | 7               | 7        | 14                |
| <b>MDL (µg)</b>           | 2,300  | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 14                |
| <b>No. &lt; MDL</b>       | 0      | 6               | 7               | 5               | 7               | 0        | 0        | 4               | 0        | 5               | 7               | 6               | 0        | 0                 |
| <b>Percent of Samples</b> | 50%    | 50%             | 50%             | 50%             | 50%             | 50%      | 50%      | 50%             | 50%      | 50%             | 50%             | 50%             | 50%      | 100%              |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

**Gallinger Road Station Monitoring Results (North)**

(concentrations expressed in  $\mu\text{g}/\text{m}^3$ )

| Date                                  | TSP   | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
|---------------------------------------|-------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| 6-Jan-23                              | 15.33 | <u>9.42E-04</u> | <u>6.28E-04</u> | <u>1.57E-03</u> | <u>6.28E-04</u> | 9.67E-02 | 2.00E-01 | 2.45E-03        | 1.50E-02 | 2.20E-03        | <u>3.14E-03</u> | <u>1.57E-03</u> | 3.25E-02 | 2.66              |
| 12-Jan-23                             | 6.20  | <u>9.40E-04</u> | <u>6.26E-04</u> | <u>1.57E-03</u> | <u>6.26E-04</u> | 1.30E-01 | 4.82E-02 | <u>9.40E-04</u> | 1.52E-02 | <u>9.40E-04</u> | <u>3.13E-03</u> | <u>1.57E-03</u> | 7.64E-03 | 3.00              |
| 18-Jan-23                             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 2.75              |
| 24-Jan-23                             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 3.08              |
| 30-Jan-23                             | 19.29 | <u>9.45E-04</u> | <u>6.30E-04</u> | <u>1.58E-03</u> | <u>6.30E-04</u> | 5.31E-02 | 2.79E-01 | 2.40E-03        | 1.53E-02 | <u>9.45E-04</u> | <u>3.15E-03</u> | <u>1.58E-03</u> | 3.09E-02 | 4.03              |
| 5-Feb-23                              | 29.19 | <u>8.58E-04</u> | <u>5.72E-04</u> | 3.15E-03        | <u>5.72E-04</u> | 1.21E-01 | 7.21E-01 | 2.17E-03        | 2.21E-02 | <u>8.58E-04</u> | <u>2.86E-03</u> | <u>1.43E-03</u> | 1.78E-02 | 5.87              |
| 11-Feb-23                             | 29.66 | <u>9.93E-04</u> | <u>6.62E-04</u> | <u>1.66E-03</u> | <u>6.62E-04</u> | 5.34E-02 | 4.80E-01 | 1.12E-02        | 2.69E-02 | <u>9.93E-04</u> | <u>3.31E-03</u> | <u>1.66E-03</u> | 6.23E-02 | 1.91              |
| 17-Feb-23                             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 3.79              |
| 23-Feb-23                             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 2.41              |
| 1-Mar-23                              |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 2.29              |
| 7-Mar-23                              | 27.84 | <u>9.24E-04</u> | <u>6.16E-04</u> | <u>1.54E-03</u> | <u>6.16E-04</u> | 1.48E-01 | 5.30E-01 | <u>9.24E-04</u> | 1.64E-02 | <u>9.24E-04</u> | <u>3.08E-03</u> | <u>1.54E-03</u> | 1.05E-02 | 2.08              |
| 13-Mar-23                             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 1.50              |
| 19-Mar-23                             | 30.06 | <u>9.30E-04</u> | <u>6.20E-04</u> | <u>1.55E-03</u> | <u>6.20E-04</u> | 7.13E-02 | 7.00E-01 | 2.73E-03        | 2.39E-02 | 1.92E-03        | <u>3.10E-03</u> | <u>1.55E-03</u> | 2.32E-02 | 3.29              |
| 25-Mar-23                             | 19.99 | <u>9.77E-04</u> | <u>6.51E-04</u> | <u>1.63E-03</u> | <u>6.51E-04</u> | 1.25E-01 | 6.84E-01 | <u>9.77E-04</u> | 2.19E-02 | <u>9.77E-04</u> | <u>3.26E-03</u> | <u>1.63E-03</u> | 1.54E-02 | 4.62              |
| <b>Arithmetic Mean</b>                | 22.19 | 9.39E-04        | 6.26E-04        | 1.78E-03        | 6.26E-04        | 9.97E-02 | 4.55E-01 | 2.97E-03        | 1.96E-02 | 1.22E-03        | 3.13E-03        | 1.56E-03        | 2.50E-02 | 3.09              |
| <b>Geometric Mean</b>                 | 20.09 | 9.38E-04        | 6.25E-04        | 1.72E-03        | 6.25E-04        | 9.31E-02 | 3.52E-01 | 2.06E-03        | 1.91E-02 | 1.14E-03        | 3.13E-03        | 1.56E-03        | 2.06E-02 | 2.90              |
| <b>Max Sample</b>                     | 30.06 | 9.93E-04        | 6.62E-04        | 3.15E-03        | 6.62E-04        | 1.48E-01 | 7.21E-01 | 1.12E-02        | 2.69E-02 | 2.20E-03        | 3.31E-03        | 1.66E-03        | 6.23E-02 | 5.87              |
| <b>Min Sample</b>                     | 6.20  | 8.58E-04        | 5.72E-04        | 1.54E-03        | 5.72E-04        | 5.31E-02 | 4.82E-02 | 9.24E-04        | 1.50E-02 | 8.58E-04        | 2.86E-03        | 1.43E-03        | 7.64E-03 | 1.50              |
| <b>AQC Limit</b>                      | 120   | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27                |
| <b>AQC Limit</b>                      | 0     | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 0                 |
| <b>Valid Samples</b>                  | 8     | 8               | 8               | 8               | 8               | 8        | 8        | 8               | 8        | 8               | 8               | 8               | 8        | 14                |
| <b>MDL (<math>\mu\text{g}</math>)</b> | 2,300 | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 15                |
| <b>No. &lt; MDL</b>                   | 0     | 8               | 8               | 7               | 8               | 0        | 0        | 3               | 0        | 6               | 8               | 8               | 0        | 0                 |
| <b>% Valid Samples</b>                | 57%   | 57%             | 57%             | 57%             | 57%             | 57%      | 57%      | 57%             | 57%      | 57%             | 57%             | 57%             | 57%      | 100%              |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

### Northwest Station Monitoring Results

(concentrations expressed in  $\mu\text{g}/\text{m}^3$ )

| Date                                  | TSP   | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
|---------------------------------------|-------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| 6-Jan-23                              | 10.52 | <u>9.02E-04</u> | <u>6.01E-04</u> | <u>1.50E-03</u> | <u>6.01E-04</u> | 2.79E-01 | 1.15E-01 | <u>9.02E-04</u> | 4.33E-03 | <u>9.02E-04</u> | <u>3.01E-03</u> | <u>1.50E-03</u> | 1.41E-02 | 3.78              |
| 12-Jan-23                             | 6.74  | <u>9.63E-04</u> | <u>6.42E-04</u> | <u>1.61E-03</u> | <u>6.42E-04</u> | 2.60E-01 | 5.78E-02 | <u>9.63E-04</u> | 3.21E-03 | <u>9.63E-04</u> | <u>3.21E-03</u> | <u>1.61E-03</u> | 5.84E-03 | 0.31              |
| 18-Jan-23                             | 28.75 | <u>9.56E-04</u> | <u>6.38E-04</u> | 3.89E-03        | <u>6.38E-04</u> | 1.57E-01 | 5.28E-01 | <u>9.56E-04</u> | 1.97E-02 | <u>9.56E-04</u> | <u>3.19E-03</u> | <u>1.59E-03</u> | 1.59E-02 |                   |
| 24-Jan-23                             | 14.36 | <u>9.33E-04</u> | <u>6.22E-04</u> | <u>1.55E-03</u> | <u>6.22E-04</u> | 1.98E-01 | 2.16E-01 | <u>9.33E-04</u> | 9.20E-03 | <u>9.33E-04</u> | <u>3.11E-03</u> | <u>1.55E-03</u> | 1.34E-02 | 2.83              |
| 30-Jan-23                             | 4.74  | <u>9.75E-04</u> | <u>6.50E-04</u> | <u>1.62E-03</u> | <u>6.50E-04</u> | 1.25E-01 | 1.50E-01 | <u>9.75E-04</u> | 4.42E-03 | <u>9.75E-04</u> | <u>3.25E-03</u> | <u>1.62E-03</u> | 1.43E-02 | 1.04              |
| 5-Feb-23                              | 6.42  | <u>9.54E-04</u> | <u>6.36E-04</u> | <u>1.59E-03</u> | <u>6.36E-04</u> | 2.33E-01 | 1.91E-01 | <u>9.54E-04</u> | 6.04E-03 | <u>9.54E-04</u> | <u>3.18E-03</u> | <u>1.59E-03</u> | 1.18E-02 |                   |
| 11-Feb-23                             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| 17-Feb-23                             | 13.31 | <u>9.37E-04</u> | <u>6.25E-04</u> | <u>1.56E-03</u> | <u>6.25E-04</u> | 1.62E-01 | 4.55E-01 | <u>9.37E-04</u> | 1.40E-02 | <u>9.37E-04</u> | <u>3.12E-03</u> | <u>1.56E-03</u> | 1.39E-02 |                   |
| 23-Feb-23                             | 8.71  | <u>9.01E-04</u> | <u>6.01E-04</u> | <u>1.50E-03</u> | <u>6.01E-04</u> | 1.78E-01 | 1.05E-01 | <u>9.01E-04</u> | 3.00E-03 | <u>9.01E-04</u> | <u>3.00E-03</u> | <u>1.50E-03</u> | 9.25E-03 |                   |
| 1-Mar-23                              | 20.85 | <u>9.42E-04</u> | <u>6.28E-04</u> | <u>1.57E-03</u> | <u>6.28E-04</u> | 2.33E-01 | 5.29E-01 | <u>9.42E-04</u> | 1.40E-02 | <u>9.42E-04</u> | <u>3.14E-03</u> | <u>1.57E-03</u> | 1.48E-02 |                   |
| 7-Mar-23                              | 22.95 | <u>9.56E-04</u> | <u>6.37E-04</u> | <u>1.59E-03</u> | <u>6.37E-04</u> | 7.90E-02 | 7.59E-01 | <u>9.56E-04</u> | 1.45E-02 | <u>9.56E-04</u> | <u>3.19E-03</u> | <u>1.59E-03</u> | 1.01E-02 |                   |
| 13-Mar-23                             | 26.36 | <u>9.69E-04</u> | <u>6.46E-04</u> | 5.62E-03        | <u>6.46E-04</u> | 2.04E-01 | 1.36E+00 | <u>9.69E-04</u> | 3.60E-02 | 3.17E-03        | <u>3.23E-03</u> | <u>1.62E-03</u> | 1.83E-02 |                   |
| 19-Mar-23                             | 16.45 | <u>9.60E-04</u> | <u>6.40E-04</u> | <u>1.60E-03</u> | <u>6.40E-04</u> | 1.12E-01 | 3.09E-01 | <u>9.60E-04</u> | 9.73E-03 | <u>9.60E-04</u> | <u>3.20E-03</u> | <u>1.60E-03</u> | 1.40E-02 |                   |
| 25-Mar-23                             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| <b>Arithmetic Mean</b>                | 15.01 | 9.46E-04        | 6.30E-04        | 2.10E-03        | 6.30E-04        | 1.85E-01 | 3.98E-01 | 9.46E-04        | 1.15E-02 | 1.13E-03        | 3.15E-03        | 1.58E-03        | 1.30E-02 | 1.99              |
| <b>Geometric Mean</b>                 | 12.91 | 9.45E-04        | 6.30E-04        | 1.88E-03        | 6.30E-04        | 1.74E-01 | 2.73E-01 | 9.45E-04        | 8.75E-03 | 1.04E-03        | 3.15E-03        | 1.58E-03        | 1.25E-02 | 1.37              |
| <b>Max Sample</b>                     | 28.75 | 9.75E-04        | 6.50E-04        | 5.62E-03        | 6.50E-04        | 2.79E-01 | 1.36E+00 | 9.75E-04        | 3.60E-02 | 3.17E-03        | 3.25E-03        | 1.62E-03        | 1.83E-02 | 3.78              |
| <b>Min Sample</b>                     | 4.74  | 9.01E-04        | 6.01E-04        | 1.50E-03        | 6.01E-04        | 7.90E-02 | 5.78E-02 | 9.01E-04        | 3.00E-03 | 9.01E-04        | 3.00E-03        | 1.50E-03        | 5.84E-03 | 0.31              |
| <b>AQC Limit</b>                      | 120   | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27                |
| <b>AQC Limit</b>                      | 0     | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 0                 |
| <b>Valid Samples</b>                  | 12    | 12              | 12              | 12              | 12              | 12       | 12       | 12              | 12       | 12              | 12              | 12              | 12       | 4                 |
| <b>MDL (<math>\mu\text{g}</math>)</b> | 2,300 | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 15                |
| <b>No. &lt; MDL</b>                   | 0     | 12              | 12              | 10              | 12              | 0        | 0        | 12              | 0        | 11              | 12              | 12              | 0        | 0                 |
| <b>Valid Samples</b>                  | 86%   | 86%             | 86%             | 86%             | 86%             | 86%      | 86%      | 86%             | 86%      | 86%             | 86%             | 86%             | 86%      | 29%               |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.



## APPENDIX A-2: TOTAL DUSTFALL SAMPLING RESULTS

### Tait Road Station Monitoring Results

(concentrations expressed in g/m<sup>2</sup>/30 days)

| Month    | No. Exposure Days | Insoluble Dustfall | Soluble Dustfall | Total Dustfall | Fixed Dustfall | Volatile Dustfall |
|----------|-------------------|--------------------|------------------|----------------|----------------|-------------------|
| January  | 31                | 1.44               | <u>0.15</u>      | 1.68           | 1.50           | <u>0.15</u>       |
| February | 29                | 1.68               | <u>0.15</u>      | 1.89           | 1.92           | <u>0.15</u>       |
| March    | 31                | 1.77               | <u>0.165</u>     | 1.89           | 1.89           | <u>0.17</u>       |
|          |                   | Arithmetic Mean    |                  | 1.82           | 1.77           | 0.155             |
|          |                   | Max Monthly        |                  | 1.89           | 1.92           | 0.165             |
|          |                   | Min Monthly        |                  | 1.68           | 1.5            | 0.15              |
|          |                   | Dustfall AAQC      |                  | 7              | -              | -                 |
|          |                   | No. > AAQC         |                  | 0              | -              | -                 |
|          |                   | MDL                |                  | 0.3            | 0.3            | 0.3               |
|          |                   | No. < MDL          |                  | 0              | 0              | 3                 |
|          |                   | No. Valid Samples  |                  | 3              | 3              | 3                 |
|          |                   | % Valid Samples    |                  | 100%           | 100%           | 100%              |

### Gallinger Road Station Monitoring Results

(concentrations expressed in g/m<sup>2</sup>/30 days)

| Month             | No. Exposure Days | Insoluble Dustfall | Soluble Dustfall | Total Dustfall | Fixed Dustfall | Volatile Dustfall |
|-------------------|-------------------|--------------------|------------------|----------------|----------------|-------------------|
| January           | 31                | 0.78               | <u>0.15</u>      | 0.99           | 0.81           | <u>0.15</u>       |
| February          | 29                | 1.89               | 1.44             | 3.57           | 3.45           | <u>0.15</u>       |
| March             | 31                | 1.8                | 0.42             | 2.22           | 2.13           | <u>0.165</u>      |
| Arithmetic Mean   |                   |                    |                  | 2.26           | 2.13           | 0.155             |
| Max Monthly       |                   |                    |                  | 3.57           | 3.45           | 0.165             |
| Min Monthly       |                   |                    |                  | 0.99           | 0.81           | 0.15              |
| Dustfall AAQC     |                   |                    |                  | 7              | -              | -                 |
| No. > AAQC        |                   |                    |                  | 0              | -              | -                 |
| MDL               |                   |                    |                  | 0.3            | 0.3            | 0.3               |
| No. < MDL         |                   |                    |                  | 0              | 0              | 3                 |
| No. Valid Samples |                   |                    |                  | 3              | 3              | 3                 |
| % Valid Samples   |                   |                    |                  | 100%           | 100%           | 100%              |

### Northwest Station Monitoring Results

(concentrations expressed in g/m<sup>2</sup>/30 days)

| Month             | No. Exposure Days | Insoluble Dustfall | Soluble Dustfall | Total Dustfall | Fixed Dustfall | Volatile Dustfall |
|-------------------|-------------------|--------------------|------------------|----------------|----------------|-------------------|
| January           | 31                | <u>0.15</u>        | <u>0.15</u>      | 0.48           | 0.36           | <u>0.15</u>       |
| February          | 29                | 0.84               | 0.57             | 1.44           | 1.02           | 0.39              |
| March             | 31                | <u>0.42</u>        | <u>0.165</u>     | 0.54           | 0.75           | <u>0.165</u>      |
| Arithmetic Mean   |                   |                    |                  | 0.82           | 0.71           | 0.24              |
| Max Monthly       |                   |                    |                  | 1.44           | 1.02           | 0.39              |
| Min Monthly       |                   |                    |                  | 0.48           | 0.36           | 0.15              |
| Dustfall AAQC     |                   |                    |                  | 7              | -              | -                 |
| No. > AAQC        |                   |                    |                  | 0              | -              | -                 |
| MDL               |                   |                    |                  | 0.3            | 0.3            | 0.3               |
| No. < MDL         |                   |                    |                  | 0              | 0              | 2                 |
| No. Valid Samples |                   |                    |                  | 3              | 3              | 3                 |
| % Valid Samples   |                   |                    |                  | 100%           | 100%           | 100%              |

## APPENDIX A-3: SO<sub>2</sub> AND NO<sub>2</sub> PASSIVE SAMPLING RESULTS

| <b>Tait Road Station Monitoring</b>                     |                       |                       |
|---|-----------------------|-----------------------|
| (concentrations expressed in $\mu\text{g}/\text{m}^3$ ) |                       |                       |
| <b>Month</b>  | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| January   | 0.52                  | 1.32                  |
| Feburary  | 0.79                  | 0.56                  |
| March   | 0.13                  | 0.56                  |
| Arithmetic Mean   | 0.48                  | 0.81                  |
| Max Monthly Concentration                               | 0.79                  | 1.32                  |
| Min Monthly Concentration                               | 0.13                  | 0.56                  |
| Comparison Limit  | 30                    | 78                    |
| No. > Limit   | 0                     | 0                     |
| MDL   | 0.26                  | 0.19                  |
| No. < MDL   | 1                     | 0                     |
| No. Valid Samples                                       | 3                     | 3                     |
| % Valid Samples   | 100%                  | 100%                  |

| <b>Gallinger Road Station Monitoring</b>                |                       |                       |
|---|-----------------------|-----------------------|
| (concentrations expressed in $\mu\text{g}/\text{m}^3$ ) |                       |                       |
| <b>Month</b>  | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| January   | 0.52                  | 0.94                  |
| February  | 0.79                  | 1.50                  |
| March   | 0.13                  | 0.38                  |
| Arithmetic Mean   | 0.48                  | 0.94                  |
| Max Monthly Concentration                               | 0.79                  | 1.50                  |
| Min Monthly Concentration                               | 0.13                  | 0.38                  |
| Comparison Limit  | 30                    | 78                    |
| No. > Limit   | 0                     | 0                     |
| MDL   | 0.26                  | 0.19                  |
| No. < MDL   | 1                     | 0                     |
| No. Valid Samples                                       | 3                     | 3                     |
| % Valid Samples   | 100%                  | 100%                  |

# **APPENDIX B:**

## **NOTICE OF EXCEEDANCES FOR Q1 2023**



## General Information

Information requested in this notification form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990 (EPA) and Ontario Regulation 419/05: Air Pollution – Local Air Quality (the Regulation) made under the EPA and will be used to collect information relating to a measured or modelled air-related exceedance as required by s.25(9), s.28(1) and s.30(3) of the Regulation. The Ministry of the Environment and Climate Change (Ministry) may also request additional information.

1. Questions regarding completion and submission of this notification form should be directed to your local Ministry District Office. A list of these District Offices (including fax numbers) is available on the [Ministry Internet site](http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator) at <http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator>. A copy of this form may be acquired through the Ministry public web site <http://www.ontario.ca/environment-and-energy/rules-air-quality-and-pollution> or by contacting any Ministry office.
2. For notification under s.25(9) or s.28(1), the completed notification form should be sent, as soon as practicable, to the local Ministry District Office which has jurisdiction over the area in which the facility is located. A list of these District Offices (including fax numbers) is available on the [Ministry Internet site](http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator) at <http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator>.
3. For notification under s.30(3), the completed notification form should be immediately faxed to the local Ministry District Office which has jurisdiction over the area which the facility is located. A list of these District Offices (including fax numbers) is available on the [Ministry Internet site](http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator) at <http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator>. If the exceedance is determined outside of the business hours of the District Office then the completed notification form should be faxed to the Spills Action Center (1-800-268-6061).
4. Information on this form may be claimed as confidential but will be subject to the *Freedom of Information and Protection of Privacy Act* (FOIPPA) and the EBR. If you do not claim confidentiality at the time of submitting the information, the MOECC Ministry may make the information available to the public without further notice to you.

## Instructions

This form should be used to notify the Ministry of a measured or modelled air-related exceedance. Notification is required under the Regulation and failure to notify the Ministry constitutes an offence under the Regulation and the EPA.

The publication titled “Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants” contains two types of benchmarks: Benchmark 1 values (standards and guidelines) and Benchmark 2 values (screening levels). This list is available on the [Internet site](https://www.ontario.ca/page/air-contaminants-benchmarks-list-standards-guidelines-and-screening-levels-assessing-point) at <https://www.ontario.ca/page/air-contaminants-benchmarks-list-standards-guidelines-and-screening-levels-assessing-point>. This form is to be used to notify the Ministry of an exceedance of a Benchmark 1 value. If a concentration of a contaminant exceeds a Benchmark 1 value that is based on a guideline value, it is an indication that discharges of the contaminant may cause an adverse effect. If a concentration of a contaminant exceeds a Benchmark 2 value, it may be an indication that discharges of the contaminant may cause an adverse effect – further assessment should be undertaken to determine if an adverse effect may occur. If so, this form should be used to notify the Ministry.

This form may be used for notification of exceedances of more than one contaminant; Table 1 (or equivalent) should be completed for modelled exceedances. Table 2 should be completed for measured exceedances. If this notification is made pursuant to s. 30 then this form must be submitted immediately.

Note: The Ministry publishes a separate list of Ontario’s Ambient Air Quality Criteria (AAQCs) which can be found on our [website](http://www.ontario.ca/document/ontarios-ambient-air-quality-criteria-sorted-contaminant-name) <http://www.ontario.ca/document/ontarios-ambient-air-quality-criteria-sorted-contaminant-name>. AAQCs are intended to address general air quality, not contributions of a contaminant to air quality from a facility. Hence, the notification requirements under the Regulation do not apply to AAQCs.

## Regulatory Authority

### Exceedance of a Benchmark 1 Value (Standard or Guideline)

“28. (1) A person who discharges or causes or permits the discharge of a contaminant shall, as soon as practicable, notify a provincial officer in writing if,

- (a) the person uses an approved dispersion model to predict concentrations of the contaminant that result from the discharges and,
    - i. the use of the model indicates that discharges of the contaminant may result in a contravention of section 19 or 20, or
    - ii. sections 19 and 20 do not apply to discharges of the contaminant and the use of the model indicates that discharges of the contaminant may cause an adverse effect;
  - (b) measurements of air samples indicate that discharges of the contaminant may result in a contravention of section 19 or 20; or
  - (c) sections 19 and 20 do not apply to discharges of the contaminant and measurements of air samples indicate that discharges of the contaminant may cause an adverse effect. ...”
3. The emission rate that, for the relevant averaging period, is derived from a combination of a method that complies with paragraph 1 or 2 and ambient monitoring, according to a plan approved by the Director as likely to provide an accurate reflection of emissions.

“25. (9) A person who is required under subsection (8) to complete the update of a report not later than March 31 in a year shall, as soon as practicable after that date, notify a provincial officer in writing if the person has started to use an approved dispersion model with respect to a contaminant for the purpose of completing the update but has not yet complied with section 12, and,

- (a) the use of the model indicates that discharges of the contaminant may result in a contravention of section 19 or 20; or
- (b) sections 19 and 20 do not apply to discharges of the contaminant and the use of the model indicates that discharges of the contaminant may cause an adverse effect. ...”

### Exceedance of an Upper Risk Threshold

“30. (1) A person who discharges or causes or permits the discharge of a contaminant listed in Schedule 6 into the air shall comply with subsections (3) and (4) if there is reason to believe, based on any relevant information, that discharges of the contaminant may result in,

- (a) the concentration of the contaminant exceeding the half hour upper risk threshold set out for that contaminant in Schedule 6 at a point of impingement, if section 19 applies to the person in respect of the contaminant; or
- (b) the other time period upper risk threshold set out for that contaminant in Schedule 6 at a point of impingement, if section 20 applies to the person in respect of the contaminant.

(1.1) The two items in Schedule 6 that set out upper risk thresholds for total reduced sulphur (TRS) compounds specify the facilities to which they apply.

(2) Without limiting the generality of subsection (1), the reference in that subsection to relevant information includes relevant information from predictions of a dispersion model, including,

- (a) an approved dispersion model or other dispersion model; or
- (b) a dispersion model that is not used in accordance with this Regulation.

(3) If subsection (1) applies to a discharge, the person who discharged or caused or permitted the discharge of the contaminant shall immediately notify the Director in writing. ...”

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## Section 1 - Ministry of the Environment and Climate Change District Office Information

Date Form Submitted (yyyy/mm/dd)  
2023/05/12

Date Exceedance Determined (yyyy/mm/dd)  
2023/05/11

MOECC District Office  
Kenora Area Office

District Office Fax Number  
807 468-2735

Supporting information attached?  Yes  No If yes, number of pages

## Section 2 - Facility and Site Information

Name of Person Making the Notification

Last Name  
Lloyd

First Name  
Robyn

Business Name (the name under which the entity is operating or trading - also referred to as trade name)

New Gold Inc.

Business Number

Business Activity Description (a description of the business endeavour, this may include products sold, services provided, equipment used, etc.)

Gold ore mining

Site Name

Rainy River Mine

MOECC District Office

Kenora Area Office

Primary North American Industry Classification System (NAICS) Code  Section 19 (Schedule 2) applies  Section 20 (Schedule 3) applies

212220

Other NAICS Code

### Civic Address

Unit Number

Street Number

1361

Street Name

Roan Road

PO Box

### Survey Address

**Lot and Concession:** used to indicate location within a subdivided township and consists of a lot number and a concession number.

**Part and Reference:** used to indicate location within an unsubdivided township or unsurveyed territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan.

Lot

Concession

Part

Reference Plan

Non Address Information (includes any additional information to clarify requestor's physical location)

Municipality/Unorganized Township or Territory Upper Tier/District

Chapple

Postal Code

P0W 1A0

Telephone Number

ext.

Fax Number

Mobile Number

705-930-7112

Email Address

robyn.lloyd@newgold.com

Geo Reference

| Description of location         | Map Datum | Zone | Accuracy Estimate | Geo-Referencing Method | UTM Easting | UTM Northing |
|---------------------------------|-----------|------|-------------------|------------------------|-------------|--------------|
| South Air Station (McMillan rd) | NAD83     | 15   | +/- 5m            | GIS                    | 426072      | 5406996      |
|                                 |           |      |                   |                        |             |              |

Environmental Compliance Approval (ECA) Number(s) and/or Environmental Activity and Sector Registry (EASR) Number(s) – attach a separate list if more space is required

1 0412-A2LR4V 2 \_\_\_\_\_ 3 \_\_\_\_\_  
4 \_\_\_\_\_ 5 \_\_\_\_\_ 6 \_\_\_\_\_

**Section 3 - Type of Notification** – Table 1 or Table 2 should be completed and submitted with this notification

This is a notification under subsection 28(1) – Notice to Provincial Officer as a result of modelling or measurements (select all that apply)

- Exceedance of Benchmark 1 Value (Standard)     Exceedance of Benchmark 1 Value (Guideline)     Exceedance of Benchmark 2 Value (determined discharge may cause adverse effect)
- Other (explain)

This is a notification under subsection 25(9) – Notice to Provincial Officer as a result an update of an Emission Summary and Dispersion Modelling Report (ESDM) (select all that apply)

- Exceedance of Benchmark 1 Value (Standard)     Exceedance of Benchmark 1 Value (Guideline)     Exceedance of Benchmark 2 Value (determined discharge may cause adverse effect)
- Other (explain)

Date that Refinement (see section 12 of the regulation) is anticipated to be complete (yyyy/mm/dd)

This is a notification under subsection 30(3) – Notice to the Director as a result of an exceedance of Upper Risk Threshold (URT) (Schedule 6)

- Yes     No

**Section 4 - Follow-Up Action**

**Section 28 Notifications**

Will an Abatement Plan be submitted to the Ministry within 30 days of this notice as per s.29?

- Yes     No    If No, please provide the following

| Type of Previously Submitted Abatement Plan | Date Submitted under s.29 of the Regulation (yyyy/mm/dd) |
|---|--|
|---|--|

**Subsection 30(3) Notifications for URT Exceedance**

Has an ESDM Report been prepared in accordance with s.30(4) and submitted to the Ministry?

- Yes     No    If No, what is the anticipated submission date for the ESDM\* (yyyy/mm/dd)?

\*Note: ESDM Report must be submitted within three months of the discharge

**Section 5 - Model Based Assessment** – please complete this section if notifying of a modelled exceedance (complete Table 1)

Was an ESDM Report prepared in accordance with s.26 of the Regulation?

- Yes     No

If yes, was the ESDM Report prepared to fulfill (select all that apply)

- s.22 of the Regulation - Application for ECA under s. 20.2 of the *Environmental Protection Act*
- s.9 of the EPA – Condition of an ECA (e.g. ECA with Limited Operational Flexibility)
- s.23 of the Regulation - Requirement for Schedule 4 and 5 sector facilities
- s.24 of the Regulation - Notice issued by Director
- s.25 of the Regulation - Requirement for updating ESDM Report
- s.30(4) of the Regulation – Required as result of URT exceedance
- s.33(1) of the Regulation – Required as part of a request for a site-specific standard

s.11 (1) of Ontario Regulation 1/17 – Registrations under Part II.2 of the Act – Activities Requiring Assessment of Air Emissions (Air Emissions EASR Regulation)

Other (please specify) \_\_\_\_\_

What approved dispersion model was used? Include version number (select all that apply)

Appendix to Reg. 346  AERMOD  ASHRAE  SCREEN 3

Other (please specify) (if other, provide copy of section 7 notice) \_\_\_\_\_

Was the approved dispersion model refined as required by s.12 of the Regulation (i.e. operating conditions, emission rates)?

Yes  No

What meteorological data was used?

Regional Data  Regional data refined, in consultation with the EMRB, to reflect local land use conditions

Local or Site-Specific Data  Data from a computational method

Did you receive approval under s. 13 for the Meteorological Data?  Yes  No

Have you modelled a concentration at a Point of Impingement (POI) other than the maximum POI? (please include figure showing maximum POI location)

Yes  No

If Yes, specify additional locations (i.e., land use) at which the exceedance may occur (select all that apply – please include figure showing additional modelled locations):

Health Care  Seniors Residence/Long Term Care Facility  Child Care Facility  Educational Facility

Dwelling

Location Specified by the Director (explain) \_\_\_\_\_

Other Location (explain) \_\_\_\_\_

**Section 6 - Measurement Based Assessment** – please complete this section if notifying of a measured **exceedance** (Complete Table 2 or equivalent)

| Type of Monitor / Measurement Type | Date of Exceedance (yyyy/mm/dd) | Duration of Exceedance |
|------------------------------------|---------------------------------|------------------------|
| Tisch 5170 High-vol sampler        | 2023/03/07                      | 24h average            |

Is the monitoring approved by the Ministry?

Yes  No If yes, please describe the approval MECP approval letter dated November 9, 2016

Monitoring Reference Number: (if available)

Specify the location (i.e., land use) at which the exceedance did occur (select all that apply):

Health Care  Seniors Residence/Long Term Care Facility  Child Care Facility  Educational Facility

Dwelling

Location Specified by the Director (explain) \_\_\_\_\_

Other Location (explain) South Monitoring Station (McMillan Road)

**Section 7 - Statement of Company Official**

I, the undersigned hereby declare that, to the best of my knowledge:

- The information contained herein and the information submitted is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184 (2) of the *Environmental Protection Act*.
- I have been authorized to act on behalf of the company identified in this form for the purpose of providing this notification of exceedance under the Regulation to the Ministry of the Environment and Climate Change.
- I have used the most recent notification form (as obtained from the Ministry Internet site at <http://www.ontario.ca/environment-and-energy/rules-air-quality-and-pollution> or from my local Ministry District Office and I have included all necessary information required by the Regulation and identified on this form.

Name of Signing Authority  
Garnet Cornell

Title  
Environment Manager

|                                       |            |                               |   |
|---------------------------------------|------------|-------------------------------|---|
| Telephone Number<br>807 234-8170 ext. | Fax Number | Mobile Number<br>807 276-0106 | Email Address<br>Garnet.Cornell@newgold.com |
|---------------------------------------|------------|-------------------------------|---|

|           |                                 |
|-----------|---------------------------------|
| Signature | Date (yyyy/mm/dd)<br>2023/03/11 |
|-----------|---------------------------------|

**Address Information**

Same as Site Physical Address?  Yes  No (If no, please provide signing authority mailing address information below)

**Civic Address**

|             |                       |                          |        |
|-------------|-----------------------|--------------------------|--------|
| Unit Number | Street Number<br>1361 | Street Name<br>Roen Road | PO Box |
|-------------|-----------------------|--------------------------|--------|

Delivery Designator: If signing authority mailing address is a Rural Route, Suburban Service, Mobile Route or General Delivery (i.e., RR#3)

|  |                 |                |         |                        |
|--|-----------------|----------------|---------|------------------------|
| Municipality/Unorganized<br>Township or Territory<br>Chapple | County/District | Province/State | Country | Postal Code<br>P0W 1A0 |
|--|-----------------|----------------|---------|------------------------|

**Table 1 - Information About Modelled Exceedance**

| Contaminant (a) | CAS (b)<br>Number | Air Dispersion<br>Model Used<br>(include<br>version<br>number) | Maximum POI (c)<br>Concentration<br>( $\mu\text{g}/\text{m}^3$ ) | Averaging<br>Period<br>(hours)(minute/<br>hour/day/<br>annual) | Ministry Limit<br>( $\mu\text{g}/\text{m}^3$ ) or<br>URT<br>( $\mu\text{g}/\text{m}^3$ ) | Limiting<br>Effect | Schedule 2,<br>Schedule 3,<br>Guideline,<br>Schedule 6<br>URT or Other<br>(specify) (d) | Benchmark 1,<br>Benchmark 2, or<br>No Benchmark (e)<br>(specify) | Percentage<br>of Ministry<br>Limit or<br>URT |
|-----------------|-------------------|--|--|--|--|--------------------|---|--|--|
|                 |                   |  |  |  |  |                    |   |  |  |

Provide additional information as needed (e.g. Location of Maximum POI Concentrations (e.g. UTM, street address, land use at Maximum POI if known, etc. )

Notes:

(a) Proper Chemical Name should be given (Abbreviations, acronyms, numeric codes, trade names and mixtures NOT ACCEPTABLE).

(b) CAS Number : Chemical Abstracts Services Number (UNIQUE Identifier for a chemical)

(c) POI Concentration : Point of Impingement Concentration

(d) Schedule 2 = section 19 applies; Schedule 3 = section 20 applies

(e) If a B2 value is exceeded, the regulation requires potential adverse effects to be assessed. If it is determined that an adverse effect may occur for the contaminant in question, this should be included in the table

**Table 2 - Information About Measured Exceedance**

| Contaminant (a)       | CAS (b)<br>Number | Type of<br>Assessment<br>(Measurement<br>Method) | Maximum POI (c)<br>Concentration<br>(µg/m <sup>3</sup> ) | Averaging<br>Period (minute/<br>hour/day/<br>annual) | Ministry Limit<br>(µg/m <sup>3</sup> ) or<br>URT (µg/m <sup>3</sup> ) | Limiting<br>Effect | Schedule 2,<br>Schedule 3,<br>Guideline,<br>Schedule 6<br>URT, or Other<br>(specify) | Benchmark 1,<br>Benchmark 2,<br>or No<br>Benchmark (d)<br>(specify) | Percentage of<br>Ministry Limit<br>or URT |
|-----------------------|-------------------|--|--|--|---|--------------------|--|---|---|
| Suspended Particulate | N/A               | Hi-Vol   | 152.10   | 24 hour  | Visibility  | 120                | AAQC   | Benchmark 1   | 126.7%                                    |

\* For additional measurement locations / sampling times, please include additional tables

\*\* If you are reporting more than one exceedance, include the time of the exceedance in the contaminant column

Notes:

(a) Proper Chemical Name should be given (Abbreviations, acronyms, numeric codes, trade names and mixtures NOT ACCEPTABLE).

(b) CAS Number : Chemical Abstracts Services Number (UNIQUE Identifier for a chemical)

(c) POI Concentration : Point of Impingement Concentration

(d) Schedule 2 = section 19 applies; Schedule 3 = section 20 applies

(e) If a B2 value is exceeded, the regulation requires potential adverse effects to be assessed. If it is determined that an adverse effect may occur for the contaminant in question, this should be included in the table



**General Information**

Information requested in this notification form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990 (EPA) and Ontario Regulation 419/05: Air Pollution – Local Air Quality (the Regulation) made under the EPA and will be used to collect information relating to a measured or modelled air-related exceedance as required by s.25(9), s.28(1) and s.30(3) of the Regulation. The Ministry of the Environment and Climate Change (Ministry) may also request additional information.

1. Questions regarding completion and submission of this notification form should be directed to your local Ministry District Office. A list of these District Offices (including fax numbers) is available on the [Ministry Internet site](http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator) at <http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator>. A copy of this form may be acquired through the Ministry public web site <http://www.ontario.ca/environment-and-energy/rules-air-quality-and-pollution> or by contacting any Ministry office.
2. For notification under s.25(9) or s.28(1), the completed notification form should be sent, as soon as practicable, to the local Ministry District Office which has jurisdiction over the area in which the facility is located. A list of these District Offices (including fax numbers) is available on the [Ministry Internet site](http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator) at <http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator>.
3. For notification under s.30(3), the completed notification form should be immediately faxed to the local Ministry District Office which has jurisdiction over the area which the facility is located. A list of these District Offices (including fax numbers) is available on the [Ministry Internet site](http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator) at <http://www.ontario.ca/environment-and-energy/ministry-environment-and-climate-change-district-locator>. If the exceedance is determined outside of the business hours of the District Office then the completed notification form should be faxed to the Spills Action Center (1-800-268-6061).
4. Information on this form may be claimed as confidential but will be subject to the *Freedom of Information and Protection of Privacy Act* (FOIPPA) and the EBR. If you do not claim confidentiality at the time of submitting the information, the MOECC Ministry may make the information available to the public without further notice to you.

**Instructions**

This form should be used to notify the Ministry of a measured or modelled air-related exceedance. Notification is required under the Regulation and failure to notify the Ministry constitutes an offence under the Regulation and the EPA.

The publication titled “Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants” contains two types of benchmarks: Benchmark 1 values (standards and guidelines) and Benchmark 2 values (screening levels). This list is available on the [Internet site](https://www.ontario.ca/page/air-contaminants-benchmarks-list-standards-guidelines-and-screening-levels-assessing-point) at <https://www.ontario.ca/page/air-contaminants-benchmarks-list-standards-guidelines-and-screening-levels-assessing-point>. This form is to be used to notify the Ministry of an exceedance of a Benchmark 1 value. If a concentration of a contaminant exceeds a Benchmark 1 value that is based on a guideline value, it is an indication that discharges of the contaminant may cause an adverse effect. If a concentration of a contaminant exceeds a Benchmark 2 value, it may be an indication that discharges of the contaminant may cause an adverse effect – further assessment should be undertaken to determine if an adverse effect may occur. If so, this form should be used to notify the Ministry.

This form may be used for notification of exceedances of more than one contaminant; Table 1 (or equivalent) should be completed for modelled exceedances. Table 2 should be completed for measured exceedances. If this notification is made pursuant to s. 30 then this form must be submitted immediately.

Note: The Ministry publishes a separate list of Ontario's Ambient Air Quality Criteria (AAQCs) which can be found on our [website](http://www.ontario.ca/document/ontarios-ambient-air-quality-criteria-sorted-contaminant-name) <http://www.ontario.ca/document/ontarios-ambient-air-quality-criteria-sorted-contaminant-name>. AAQCs are intended to address general air quality, not contributions of a contaminant to air quality from a facility. Hence, the notification requirements under the Regulation do not apply to AAQCs.

## Regulatory Authority

### Exceedance of a Benchmark 1 Value (Standard or Guideline)

“28. (1) A person who discharges or causes or permits the discharge of a contaminant shall, as soon as practicable, notify a provincial officer in writing if,

- (a) the person uses an approved dispersion model to predict concentrations of the contaminant that result from the discharges and,
    - i. the use of the model indicates that discharges of the contaminant may result in a contravention of section 19 or 20, or
    - ii. sections 19 and 20 do not apply to discharges of the contaminant and the use of the model indicates that discharges of the contaminant may cause an adverse effect;
  - (b) measurements of air samples indicate that discharges of the contaminant may result in a contravention of section 19 or 20; or
  - (c) sections 19 and 20 do not apply to discharges of the contaminant and measurements of air samples indicate that discharges of the contaminant may cause an adverse effect. ...”
3. The emission rate that, for the relevant averaging period, is derived from a combination of a method that complies with paragraph 1 or 2 and ambient monitoring, according to a plan approved by the Director as likely to provide an accurate reflection of emissions.

“25. (9) A person who is required under subsection (8) to complete the update of a report not later than March 31 in a year shall, as soon as practicable after that date, notify a provincial officer in writing if the person has started to use an approved dispersion model with respect to a contaminant for the purpose of completing the update but has not yet complied with section 12, and,

- (a) the use of the model indicates that discharges of the contaminant may result in a contravention of section 19 or 20; or
- (b) sections 19 and 20 do not apply to discharges of the contaminant and the use of the model indicates that discharges of the contaminant may cause an adverse effect. ...”

### Exceedance of an Upper Risk Threshold

“30. (1) A person who discharges or causes or permits the discharge of a contaminant listed in Schedule 6 into the air shall comply with subsections (3) and (4) if there is reason to believe, based on any relevant information, that discharges of the contaminant may result in,

- (a) the concentration of the contaminant exceeding the half hour upper risk threshold set out for that contaminant in Schedule 6 at a point of impingement, if section 19 applies to the person in respect of the contaminant; or
- (b) the other time period upper risk threshold set out for that contaminant in Schedule 6 at a point of impingement, if section 20 applies to the person in respect of the contaminant.

(1.1) The two items in Schedule 6 that set out upper risk thresholds for total reduced sulphur (TRS) compounds specify the facilities to which they apply.

(2) Without limiting the generality of subsection (1), the reference in that subsection to relevant information includes relevant information from predictions of a dispersion model, including,

- (a) an approved dispersion model or other dispersion model; or
- (b) a dispersion model that is not used in accordance with this Regulation.

(3) If subsection (1) applies to a discharge, the person who discharged or caused or permitted the discharge of the contaminant shall immediately notify the Director in writing. ...”

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## Section 1 - Ministry of the Environment and Climate Change District Office Information

Date Form Submitted (yyyy/mm/dd)  
2023/05/12

Date Exceedance Determined (yyyy/mm/dd)  
2023/05/11

MOECC District Office  
Kenora Area Office

District Office Fax Number  
807 468-2735

Supporting information attached?  Yes  No If yes, number of pages

**Section 2 - Facility and Site Information**

Name of Person Making the Notification

Last Name  
Lloyd

First Name  
Robyn

Business Name (the name under which the entity is operating or trading - also referred to as trade name)  
New Gold Inc.

Business Number

Business Activity Description (a description of the business endeavour, this may include products sold, services provided, equipment used, etc.)

Gold ore mining

Site Name  
Rainy River Mine

MOECC District Office  
Kenora Area Office

Primary North American Industry Classification System (NAICS) Code  Section 19 (Schedule 2) applies  Section 20 (Schedule 3) applies  
212220

Other NAICS Code

**Civic Address**

Unit Number

Street Number  
1361

Street Name  
Roan Road

PO Box

**Survey Address**

**Lot and Concession:** used to indicate location within a subdivided township and consists of a lot number and a concession number.

**Part and Reference:** used to indicate location within an unsubdivided township or unsurveyed territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan.

Lot

Concession

Part

Reference Plan

Non Address Information (includes any additional information to clarify requestor's physical location)

Municipality/Unorganized Township or Territory Upper Tier/District  
Chapple

Postal Code  
P0W 1A0

Telephone Number  
ext.

Fax Number

Mobile Number  
705-930-7112

Email Address  
robyn.lloyd@newgold.com

Geo Reference

| Description of location         | Map Datum | Zone | Accuracy Estimate | Geo-Referencing Method | UTM Easting | UTM Northing |
|---------------------------------|-----------|------|-------------------|------------------------|-------------|--------------|
| South Air Station (McMillan rd) | NAD83     | 15   | +/- 5m            | GIS                    | 426072      | 5406996      |
|                                 |           |      |                   |                        |             |              |

Environmental Compliance Approval (ECA) Number(s) and/or Environmental Activity and Sector Registry (EASR) Number(s) – attach a separate list if more space is required

1 0412-A2LR4V 2 \_\_\_\_\_ 3 \_\_\_\_\_  
4 \_\_\_\_\_ 5 \_\_\_\_\_ 6 \_\_\_\_\_

**Section 3 - Type of Notification** – Table 1 or Table 2 should be completed and submitted with this notification

This is a notification under subsection 28(1) – Notice to Provincial Officer as a result of modelling or measurements (select all that apply)

Exceedance of Benchmark 1 Value (Standard)     Exceedance of Benchmark 1 Value (Guideline)     Exceedance of Benchmark 2 Value (determined discharge may cause adverse effect)

Other (explain)

This is a notification under subsection 25(9) – Notice to Provincial Officer as a result an update of an Emission Summary and Dispersion Modelling Report (ESDM) (select all that apply)

Exceedance of Benchmark 1 Value (Standard)     Exceedance of Benchmark 1 Value (Guideline)     Exceedance of Benchmark 2 Value (determined discharge may cause adverse effect)

Other (explain)

Date that Refinement (see section 12 of the regulation) is anticipated to be complete (yyyy/mm/dd)

This is a notification under subsection 30(3) – Notice to the Director as a result of an exceedance of Upper Risk Threshold (URT) (Schedule 6)

Yes     No

**Section 4 - Follow-Up Action**

**Section 28 Notifications**

Will an Abatement Plan be submitted to the Ministry within 30 days of this notice as per s.29?

Yes     No    If No, please provide the following

| Type of Previously Submitted Abatement Plan | Date Submitted under s.29 of the Regulation (yyyy/mm/dd) |
|---|--|
|---|--|

**Subsection 30(3) Notifications for URT Exceedance**

Has an ESDM Report been prepared in accordance with s.30(4) and submitted to the Ministry?

Yes     No    If No, what is the anticipated submission date for the ESDM\* (yyyy/mm/dd)?

\*Note: ESDM Report must be submitted within three months of the discharge

**Section 5 - Model Based Assessment** – please complete this section if notifying of a modelled exceedance (complete Table 1)

Was an ESDM Report prepared in accordance with s.26 of the Regulation?

Yes     No

If yes, was the ESDM Report prepared to fulfill (select all that apply)

s.22 of the Regulation - Application for ECA under s. 20.2 of the *Environmental Protection Act*

s.9 of the EPA – Condition of an ECA (e.g. ECA with Limited Operational Flexibility)

s.23 of the Regulation - Requirement for Schedule 4 and 5 sector facilities

s.24 of the Regulation - Notice issued by Director

s.25 of the Regulation - Requirement for updating ESDM Report

s.30(4) of the Regulation – Required as result of URT exceedance

s.33(1) of the Regulation – Required as part of a request for a site-specific standard

s.11 (1) of Ontario Regulation 1/17 – Registrations under Part II.2 of the Act – Activities Requiring Assessment of Air Emissions (Air Emissions EASR Regulation)

Other (please specify) \_\_\_\_\_

What approved dispersion model was used? Include version number (select all that apply)

Appendix to Reg. 346  AERMOD  ASHRAE  SCREEN 3

Other (please specify) (if other, provide copy of section 7 notice) \_\_\_\_\_

Was the approved dispersion model refined as required by s.12 of the Regulation (i.e. operating conditions, emission rates)?

Yes  No

What meteorological data was used?

Regional Data  Regional data refined, in consultation with the EMRB, to reflect local land use conditions

Local or Site-Specific Data  Data from a computational method

Did you receive approval under s. 13 for the Meteorological Data?  Yes  No

Have you modelled a concentration at a Point of Impingement (POI) other than the maximum POI? (please include figure showing maximum POI location)

Yes  No

If Yes, specify additional locations (i.e., land use) at which the exceedance may occur (select all that apply – please include figure showing additional modelled locations):

Health Care  Seniors Residence/Long Term Care Facility  Child Care Facility  Educational Facility

Dwelling

Location Specified by the Director (explain) \_\_\_\_\_

Other Location (explain) \_\_\_\_\_

**Section 6 - Measurement Based Assessment** – please complete this section if notifying of a measured **exceedance** (Complete Table 2 or equivalent)

| Type of Monitor / Measurement Type | Date of Exceedance (yyyy/mm/dd) | Duration of Exceedance |
|------------------------------------|---------------------------------|------------------------|
| Tisch 5170 High-vol sampler        | 2023/03/01                      | 24h average            |

Is the monitoring approved by the Ministry?

Yes  No If yes, please describe the approval MECP approval letter dated November 9, 2016

Monitoring Reference Number: (if available)

Specify the location (i.e., land use) at which the exceedance did occur (select all that apply):

Health Care  Seniors Residence/Long Term Care Facility  Child Care Facility  Educational Facility

Dwelling

Location Specified by the Director (explain) \_\_\_\_\_

Other Location (explain) South Monitoring Station (McMillan Road)

**Section 7 - Statement of Company Official**

I, the undersigned hereby declare that, to the best of my knowledge:

- The information contained herein and the information submitted is complete and accurate in every way and I am aware of the penalties against providing false information as per s.184 (2) of the *Environmental Protection Act*.
- I have been authorized to act on behalf of the company identified in this form for the purpose of providing this notification of exceedance under the Regulation to the Ministry of the Environment and Climate Change.
- I have used the most recent notification form (as obtained from the Ministry Internet site at <http://www.ontario.ca/environment-and-energy/rules-air-quality-and-pollution> or from my local Ministry District Office and I have included all necessary information required by the Regulation and identified on this form.

Name of Signing Authority  
Garnet Cornell

Title  
Environment Manager

|                                       |            |                               |   |
|---------------------------------------|------------|-------------------------------|---|
| Telephone Number<br>807 234-8170 ext. | Fax Number | Mobile Number<br>807 276-0106 | Email Address<br>Garnet.Cornell@newgold.com |
|---------------------------------------|------------|-------------------------------|---|

|           |                                 |
|-----------|---------------------------------|
| Signature | Date (yyyy/mm/dd)<br>2023/03/11 |
|-----------|---------------------------------|

**Address Information**

Same as Site Physical Address?  Yes  No (If no, please provide signing authority mailing address information below)

**Civic Address**

|             |                       |                          |        |
|-------------|-----------------------|--------------------------|--------|
| Unit Number | Street Number<br>1361 | Street Name<br>Roen Road | PO Box |
|-------------|-----------------------|--------------------------|--------|

Delivery Designator: If signing authority mailing address is a Rural Route, Suburban Service, Mobile Route or General Delivery (i.e., RR#3)

|  |                 |                |         |                        |
|--|-----------------|----------------|---------|------------------------|
| Municipality/Unorganized<br>Township or Territory<br>Chapple | County/District | Province/State | Country | Postal Code<br>P0W 1A0 |
|--|-----------------|----------------|---------|------------------------|

**Table 1 - Information About Modelled Exceedance**

| Contaminant (a) | CAS (b)<br>Number | Air Dispersion<br>Model Used<br>(include<br>version<br>number) | Maximum POI (c)<br>Concentration<br>(µg/m³) | Averaging<br>Period<br>(hours)(minute/<br>hour/day/<br>annual) | Ministry Limit<br>(µg/m³) or<br>URT<br>(µg/m³) | Limiting<br>Effect | Schedule 2,<br>Schedule 3,<br>Guideline,<br>Schedule 6<br>URT or Other<br>(specify) (d) | Benchmark 1,<br>Benchmark 2, or<br>No Benchmark (e)<br>(specify) | Percentage<br>of Ministry<br>Limit or<br>URT |
|-----------------|-------------------|--|---|--|--|--------------------|---|--|--|
|                 |                   |  |   |  |  |                    |   |  |  |

Provide additional information as needed (e.g. Location of Maximum POI Concentrations (e.g. UTM, street address, land use at Maximum POI if known, etc.))

Notes:

(a) Proper Chemical Name should be given (Abbreviations, acronyms, numeric codes, trade names and mixtures NOT ACCEPTABLE).

(b) CAS Number : Chemical Abstracts Services Number (UNIQUE Identifier for a chemical)

(c) POI Concentration : Point of Impingement Concentration

(d) Schedule 2 = section 19 applies; Schedule 3 = section 20 applies

(e) If a B2 value is exceeded, the regulation requires potential adverse effects to be assessed. If it is determined that an adverse effect may occur for the contaminant in question, this should be included in the table

**Table 2 - Information About Measured Exceedance**

| Contaminant (a)       | CAS (b)<br>Number | Type of<br>Assessment<br>(Measurement<br>Method) | Maximum POI (c)<br>Concentration<br>( $\mu\text{g}/\text{m}^3$ ) | Averaging<br>Period (minute/<br>hour/day/<br>annual) | Ministry Limit<br>( $\mu\text{g}/\text{m}^3$ ) or<br>URT ( $\mu\text{g}/\text{m}^3$ ) | Limiting<br>Effect | Schedule 2,<br>Schedule 3,<br>Guideline,<br>Schedule 6<br>URT, or Other<br>(specify) | Benchmark 1,<br>Benchmark 2,<br>or No<br>Benchmark (d)<br>(specify) | Percentage of<br>Ministry Limit<br>or URT |
|-----------------------|-------------------|--|--|--|---|--------------------|--|---|---|
| Suspended Particulate | N/A               | Hi-Vol   | 162.99   | 24 hour  | Visibility  | 120                | AAQC   | Benchmark 1   | 135.8%                                    |

\* For additional measurement locations / sampling times, please include additional tables

\*\* If you are reporting more than one exceedance, include the time of the exceedance in the contaminant column

Notes:

(a) Proper Chemical Name should be given (Abbreviations, acronyms, numeric codes, trade names and mixtures NOT ACCEPTABLE).

(b) CAS Number : Chemical Abstracts Services Number (UNIQUE Identifier for a chemical)

(c) POI Concentration : Point of Impingement Concentration

(d) Schedule 2 = section 19 applies; Schedule 3 = section 20 applies

(e) If a B2 value is exceeded, the regulation requires potential adverse effects to be assessed. If it is determined that an adverse effect may occur for the contaminant in question, this should be included in the table



# **APPENDIX C: LABORATORY RESULTS**



New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 08-MAR-23  
Report Date: 31-MAR-23 12:17 (MT)  
Version: FINAL

Client Phone: 807-234-8200

## Certificate of Analysis

Lab Work Order #: L2748581  
Project P.O. #: 4700001830  
Job Reference:  
C of C Numbers:  
Legal Site Desc:

  
\_\_\_\_\_  
Claire Kocharakkal, B.Sc.  
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567  
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2748581-1 NORTH-TSP-467<br>Sampled By: Client on 30-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 30600  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 84.2   |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 442    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 24.2   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | 3.8    |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 49.1   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-2 NORTH-TSP-468<br>Sampled By: Client on 05-FEB-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 51000  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | 5.5    |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 211    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 1260   |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 38.7   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | 3.8    |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 31.1   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-3 NORTH-TSP-469<br>Sampled By: Client on 11-FEB-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 44800  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 80.6   |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 725    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 40.6   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | 16.9   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 94.1   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2748581-4 NORTH-TSP-470<br>Sampled By: Client on 17-FEB-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 88400  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | 8.5    |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 127    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 1850   |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 68.0   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | 16.7   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | 10.6   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 78.8   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-5 NORTH-TSP-471<br>Sampled By: Client on 23-FEB-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 124000 |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | 14.4   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 191    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 3180   |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 86.9   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | 11.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | 3.5    |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 27.5   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-6 SOUTH-TSP-467<br>Sampled By: Client on 30-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 15200  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 130    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 464    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 14.1   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | 3.7    |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 31.9   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2748581-7 SOUTH-TSP-468<br>Sampled By: Client on 05-FEB-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 13800  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 235    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 294    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 10.3   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 20.3   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-8 SOUTH-TSP-469<br>Sampled By: Client on 11-FEB-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 4600   |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 252    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 240    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 6.7    |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 12.2   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-9 SOUTH-TSP-470<br>Sampled By: Client on 17-FEB-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 21000  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)  | 273    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)  | 684    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)   | 20.5   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)  | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)  | 24.6   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2748581-10 SOUTH-TSP-471<br>Sampled By: Client on 23-FEB-23<br>Matrix: Hi Vol Filter     |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 101000 |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)   | 6.8    |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)   | 368    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)   | 1710   |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)  | 72.5   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)   | 8.7    |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)   | 9.2    |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)   | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)   | 68.4   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-11 NORTHWEST-TSP-467<br>Sampled By: Client on 30-JAN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 7300   |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)   | 192    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)   | 231    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)  | 6.8    |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)   | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)   | 22.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-12 NORTHWEST-TSP-468<br>Sampled By: Client on 05-FEB-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 10100  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)   | 366    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)   | 300    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)  | 9.5    |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)   | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)   | 18.5   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2748581-13 NORTHWEST-TSP-469<br>Sampled By: Client on 11-FEB-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 14400  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)   | 201    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)   | 477    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)  | 14.0   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)   | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)   | 20.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-14 NORTHWEST-TSP-470<br>Sampled By: Client on 17-FEB-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 21300  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)   | 259    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)   | 729    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)  | 22.4   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)   | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)   | 22.3   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-15 NORTHWEST-TSP-471<br>Sampled By: Client on 23-FEB-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 14500  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)   | 297    |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)   | 174    |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)  | 5.0    |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)   | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)   | 15.4   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2748581-16 TSP-FEBRUARY TRIP BLANK<br>Sampled By: Client on 03-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 22-MAR-23 | R5939919 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Copper (Cu)   | <4.0   |            | 4.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Iron (Fe)   | 22     |            | 20   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Manganese (Mn)  | <1.0   |            | 1.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Selenium (Se)   | <10    |            | 10   | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| Zinc (Zn)   | <5.0   |            | 5.0  | ug    | 28-MAR-23 | 29-MAR-23 | R5940996 |
| L2748581-17 NORTH-PM2.5-467<br>Sampled By: Client on 30-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 97     |            | 15   | ug    |           | 08-MAR-23 | R5940036 |
| L2748581-18 NORTH-PM2.5-468<br>Sampled By: Client on 05-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 141    |            | 15   | ug    |           | 08-MAR-23 | R5940036 |
| L2748581-19 NORTH-PM2.5-469<br>Sampled By: Client on 11-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 46     |            | 15   | ug    |           | 08-MAR-23 | R5940036 |
| L2748581-20 NORTH-PM2.5-470<br>Sampled By: Client on 17-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 91     |            | 15   | ug    |           | 08-MAR-23 | R5940036 |
| L2748581-21 NORTH-PM2.5-471<br>Sampled By: Client on 23-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 58     |            | 15   | ug    |           | 08-MAR-23 | R5940036 |
| L2748581-22 SOUTH-PM2.5-467<br>Sampled By: Client on 30-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 93     |            | 15   | ug    |           | 08-MAR-23 | R5940036 |
| L2748581-23 SOUTH-PM2.5-468<br>Sampled By: Client on 05-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                                |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result  | Qualifier* | D.L.   | Units  | Extracted | Analyzed   | Batch  |
|--|---|------------|--|--|-----------|--|--|
| L2748581-23 SOUTH-PM2.5-468<br>Sampled By: Client on 05-FEB-23<br>Matrix: 47mm Filter<br>Total particulate   | 120   |            | 15   | ug   |           | 08-MAR-23  | R5940036   |
| L2748581-24 SOUTH-PM2.5-469<br>Sampled By: Client on 11-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 45  |            | 15   | ug   |           | 08-MAR-23  | R5940036   |
| L2748581-25 SOUTH-PM2.5-470<br>Sampled By: Client on 17-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 76  |            | 15   | ug   |           | 08-MAR-23  | R5940036   |
| L2748581-26 SOUTH-PM2.5-471<br>Sampled By: Client on 23-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 54  |            | 15   | ug   |           | 08-MAR-23  | R5940036   |
| L2748581-27 NORTHWEST-PM2.5-467<br>Sampled By: Client on 30-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 25  |            | 15   | ug   |           | 08-MAR-23  | R5940036   |
| L2748581-28 NORTHWEST-PM2.5-468<br>Sampled By: Client on 05-FEB-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | <15   |            | 15   | ug   |           | 08-MAR-23  | R5940036   |
| L2748581-29 PM2.5-FEBRUARY TRIP BLANK<br>Sampled By: Client on 03-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | <15   |            | 15   | ug   |           | 08-MAR-23  | R5940036   |
| L2748581-30 DUSTFALL- GALLINGER ROAD<br>Sampled By: Client on 02-MAR-23<br>Matrix: Dustfall<br><br><b>Dustfalls-Total, Soluble, Insoluble +FV</b><br>Total Dustfall<br>Total Insoluble Dustfall<br>Total Soluble Dustfall<br>Fixed Dustfall<br>Fixed Insoluble Dustfall<br>Fixed Soluble Dustfall<br>Volatile Dustfall<br>Volatile Insoluble Dustfall<br>Volatile Soluble Dustfall<br>Interval<br>Mercury (Hg)-Total<br><b>Total Metals in Dustfalls by ICPMS</b><br>Aluminum (Al)-Total | 1.19<br>0.63<br>0.48<br>1.15<br>1.09<br><0.10<br><0.10<br><0.10<br><0.10<br>1<br><0.0000011<br>0.0173 |            | 0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>1<br>0.0000011<br>0.000066 | mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>days<br>mg/dm2.day<br>mg/dm2.day |           | 22-MAR-23<br>22-MAR-23<br>22-MAR-23<br>22-MAR-23<br>22-MAR-23<br>22-MAR-23<br>22-MAR-23<br>22-MAR-23<br>22-MAR-23<br>20-MAR-23<br>28-MAR-23<br>21-MAR-23 | R5940138<br>R5940138<br>R5940138<br>R5940138<br>R5940138<br>R5940138<br>R5940138<br>R5940138<br>R5940138<br>R5937937<br>R5939796<br>R5938581 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result      | Qualifier* | D.L.      | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|-----------|------------|-----------|-----------|----------|
| L2748581-30 DUSTFALL- GALLINGER ROAD           |             |            |           |            |           |           |          |
| Sampled By: Client on 02-MAR-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |           |            |           |           |          |
| Interval                                       |             |            | 1         | days       |           | 21-MAR-23 | R5938296 |
| Antimony (Sb)-Total                            | 0.0000038   |            | 0.0000022 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Arsenic (As)-Total                             | <0.000017   | DLDF       | 0.000017  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Barium (Ba)-Total                              | 0.000108    |            | 0.0000011 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Beryllium (Be)-Total                           | <0.000011   |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Bismuth (Bi)-Total                             | <0.000011   |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Boron (B)-Total                                | <0.00022    |            | 0.00022   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Cadmium (Cd)-Total                             | 0.0000027   |            | 0.0000011 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Calcium (Ca)-Total                             | 0.0277      |            | 0.00044   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Chromium (Cr)-Total                            | 0.000057    |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Cobalt (Co)-Total                              | 0.0000090   |            | 0.0000022 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Copper (Cu)-Total                              | 0.000098    |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Lead (Pb)-Total                                | 0.0000960   |            | 0.0000011 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Iron (Fe)-Total                                | 0.0168      |            | 0.00066   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Lithium (Li)-Total                             | <0.00011    |            | 0.00011   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Magnesium (Mg)-Total                           | 0.00964     |            | 0.00011   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Manganese (Mn)-Total                           | 0.000730    |            | 0.0000022 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Molybdenum (Mo)-Total                          | <0.0000033  | DLB        | 0.0000033 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Nickel (Ni)-Total                              | 0.000117    |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Phosphorus (P)-Total                           | <0.0011     |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Potassium (K)-Total                            | 0.0041      |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Selenium (Se)-Total                            | <0.000022   |            | 0.000022  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Silicon (Si)-Total                             | 0.0273      |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Silver (Ag)-Total                              | 0.00000085  |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Sodium (Na)-Total                              | 0.0036      |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Strontium (Sr)-Total                           | 0.0000912   |            | 0.0000022 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Thallium (Tl)-Total                            | <0.0000022  |            | 0.0000022 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Tin (Sn)-Total                                 | <0.0000022  |            | 0.0000022 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Titanium (Ti)-Total                            | 0.00035     |            | 0.00022   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Uranium (U)-Total                              | 0.00000038  |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Vanadium (V)-Total                             | 0.000023    |            | 0.000022  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Zinc (Zn)-Total                                | 0.000719    |            | 0.000066  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| L2748581-31 DUSTFALL- TAIT ROAD (SOUTH)        |             |            |           |            |           |           |          |
| Sampled By: Client on 02-MAR-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |           |            |           |           |          |
| Total Dustfall                                 | 0.63        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Total Insoluble Dustfall                       | 0.56        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Total Soluble Dustfall                         | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Dustfall                                 | 0.64        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Insoluble Dustfall                       | 0.59        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Soluble Dustfall                         | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Dustfall                              | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Insoluble Dustfall                    | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Soluble Dustfall                      | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Interval                                       |             |            | 1         | days       |           | 20-MAR-23 | R5937937 |
| Mercury (Hg)-Total                             | <0.00000098 |            | 0.0000009 | mg/dm2.day | 20-MAR-23 | 28-MAR-23 | R5939796 |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            | 8         |            |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result      | Qualifier* | D.L.      | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|-----------|------------|-----------|-----------|----------|
| L2748581-31 DUSTFALL- TAIT ROAD (SOUTH)<br>Sampled By: Client on 02-MAR-23<br>Matrix: Dustfall |             |            |           |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>  |             |            |           |            |           |           |          |
| Aluminum (Al)-Total  | 0.00917     |            | 0.000059  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Interval   |             |            | 1         | days       |           | 21-MAR-23 | R5938296 |
| Antimony (Sb)-Total  | 0.0000021   |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Arsenic (As)-Total   | <0.0000079  | DLDF       | 0.0000079 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Barium (Ba)-Total  | 0.0000558   |            | 0.0000009 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
|  |             |            | 8         |            |           |           |          |
| Beryllium (Be)-Total   | <0.0000098  |            | 0.0000098 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Bismuth (Bi)-Total   | <0.0000098  |            | 0.0000098 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Boron (B)-Total  | <0.00020    |            | 0.00020   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Cadmium (Cd)-Total   | 0.00000108  |            | 0.0000009 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
|  |             |            | 8         |            |           |           |          |
| Calcium (Ca)-Total   | 0.0165      |            | 0.00039   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Chromium (Cr)-Total  | 0.0000277   |            | 0.0000098 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Cobalt (Co)-Total  | 0.0000043   |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Copper (Cu)-Total  | 0.0000381   |            | 0.0000098 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Lead (Pb)-Total  | 0.0000474   |            | 0.0000009 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
|  |             |            | 8         |            |           |           |          |
| Iron (Fe)-Total  | 0.00922     |            | 0.00059   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Lithium (Li)-Total   | <0.000098   |            | 0.000098  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Magnesium (Mg)-Total   | 0.00541     |            | 0.000098  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Manganese (Mn)-Total   | 0.000449    |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Molybdenum (Mo)-Total  | <0.0000020  | DLB        | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Nickel (Ni)-Total  | 0.0000363   |            | 0.0000098 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Phosphorus (P)-Total   | <0.00098    |            | 0.00098   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Potassium (K)-Total  | 0.00210     |            | 0.00098   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Selenium (Se)-Total  | <0.000020   |            | 0.000020  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Silicon (Si)-Total   | 0.0131      |            | 0.00098   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Silver (Ag)-Total  | 0.00000049  |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
|  |             |            | 0         |            |           |           |          |
| Sodium (Na)-Total  | 0.00187     |            | 0.00098   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Strontium (Sr)-Total   | 0.0000426   |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Thallium (Tl)-Total  | <0.0000020  |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Tin (Sn)-Total   | <0.0000020  |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Titanium (Ti)-Total  | 0.00024     |            | 0.00020   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Uranium (U)-Total  | <0.00000020 |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
|  |             |            | 0         |            |           |           |          |
| Vanadium (V)-Total   | <0.000020   |            | 0.000020  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Zinc (Zn)-Total  | 0.000301    |            | 0.000059  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| L2748581-32 DUSTFALL- NORTHWEST<br>Sampled By: Client on 28-FEB-23<br>Matrix: Dustfall         |             |            |           |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b>   |             |            |           |            |           |           |          |
| Total Dustfall   | 0.48        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Total Insoluble Dustfall   | 0.28        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Total Soluble Dustfall   | 0.19        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Dustfall   | 0.34        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Insoluble Dustfall   | 0.32        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Soluble Dustfall   | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Dustfall  | 0.13        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Insoluble Dustfall  | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Soluble Dustfall  | 0.17        |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result      | Qualifier* | D.L.      | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|-----------|------------|-----------|-----------|----------|
| L2748581-32 DUSTFALL- NORTHWEST                |             |            |           |            |           |           |          |
| Sampled By: Client on 28-FEB-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| Interval                                       |             |            | 1         | days       |           | 20-MAR-23 | R5937937 |
| Mercury (Hg)-Total                             | <0.0000010  |            | 0.0000010 | mg/dm2.day | 20-MAR-23 | 28-MAR-23 | R5939796 |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |           |            |           |           |          |
| Aluminum (Al)-Total                            | 0.00640     |            | 0.000061  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Interval                                       |             |            | 1         | days       |           | 21-MAR-23 | R5938296 |
| Antimony (Sb)-Total                            | <0.0000020  |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Arsenic (As)-Total                             | <0.0000061  | DLDF       | 0.0000061 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Barium (Ba)-Total                              | 0.0000410   |            | 0.0000010 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Beryllium (Be)-Total                           | <0.000010   |            | 0.000010  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Bismuth (Bi)-Total                             | <0.000010   |            | 0.000010  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Boron (B)-Total                                | <0.00020    |            | 0.00020   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Cadmium (Cd)-Total                             | <0.0000010  |            | 0.0000010 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Calcium (Ca)-Total                             | 0.0111      |            | 0.00041   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Chromium (Cr)-Total                            | 0.000046    |            | 0.000010  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Cobalt (Co)-Total                              | 0.0000029   |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Copper (Cu)-Total                              | 0.000030    |            | 0.000010  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Lead (Pb)-Total                                | 0.0000117   |            | 0.0000010 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Iron (Fe)-Total                                | 0.00683     |            | 0.00061   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Lithium (Li)-Total                             | <0.00010    |            | 0.00010   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Magnesium (Mg)-Total                           | 0.00453     |            | 0.00010   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Manganese (Mn)-Total                           | 0.000229    |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Molybdenum (Mo)-Total                          | <0.0000020  | DLB        | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Nickel (Ni)-Total                              | 0.000023    |            | 0.000010  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Phosphorus (P)-Total                           | <0.0010     |            | 0.0010    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Potassium (K)-Total                            | 0.0015      |            | 0.0010    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Selenium (Se)-Total                            | <0.000020   |            | 0.000020  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Silicon (Si)-Total                             | 0.0105      |            | 0.0010    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Silver (Ag)-Total                              | 0.0000043   |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Sodium (Na)-Total                              | 0.0016      |            | 0.0010    | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Strontium (Sr)-Total                           | 0.0000352   |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Thallium (Tl)-Total                            | <0.0000020  |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Tin (Sn)-Total                                 | <0.0000020  |            | 0.0000020 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Titanium (Ti)-Total                            | <0.00020    |            | 0.00020   | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Uranium (U)-Total                              | <0.00000020 |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Vanadium (V)-Total                             | <0.000020   |            | 0.000020  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| Zinc (Zn)-Total                                | 0.000086    |            | 0.000061  | mg/dm2.day | 21-MAR-23 | 21-MAR-23 | R5938581 |
| L2748581-33 DUSTFALL- TRIP BLANK               |             |            |           |            |           |           |          |
| Sampled By: Client on 03-MAR-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |           |            |           |           |          |
| Total Dustfall                                 | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Total Insoluble Dustfall                       | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Total Soluble Dustfall                         | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Dustfall                                 | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Insoluble Dustfall                       | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Fixed Soluble Dustfall                         | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Dustfall                              | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Insoluble Dustfall                    | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |
| Volatile Soluble Dustfall                      | <0.10       |            | 0.10      | mg/dm2.day |           | 22-MAR-23 | R5940138 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                 | Result      | Qualifier* | D.L.      | Units      | Extracted | Analyzed  | Batch    |
|---|-------------|------------|-----------|------------|-----------|-----------|----------|
| L2748581-33 DUSTFALL- TRIP BLANK          |             |            |           |            |           |           |          |
| Sampled By: Client on 03-MAR-23           |             |            |           |            |           |           |          |
| Matrix: Dustfall                          |             |            |           |            |           |           |          |
| Interval                                  |             |            | 1         | days       |           | 20-MAR-23 | R5937937 |
| Mercury (Hg)-Total                        | <0.0000011  |            | 0.0000011 | mg/dm2.day | 20-MAR-23 | 28-MAR-23 | R5939796 |
| <b>Total Metals in Dustfalls by ICPMS</b> |             |            |           |            |           |           |          |
| Aluminum (Al)-Total                       | <0.000068   |            | 0.000068  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Interval                                  |             |            | 1         | days       |           | 21-MAR-23 | R5938296 |
| Antimony (Sb)-Total                       | <0.0000023  |            | 0.0000023 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Arsenic (As)-Total                        | <0.0000045  | DLDF       | 0.0000045 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Barium (Ba)-Total                         | <0.0000011  |            | 0.0000011 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Beryllium (Be)-Total                      | <0.000011   |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Bismuth (Bi)-Total                        | <0.000011   |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Boron (B)-Total                           | <0.00023    |            | 0.00023   | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Cadmium (Cd)-Total                        | <0.0000011  |            | 0.0000011 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Calcium (Ca)-Total                        | 0.00059     |            | 0.00045   | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Chromium (Cr)-Total                       | <0.000011   |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Cobalt (Co)-Total                         | <0.0000023  |            | 0.0000023 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Copper (Cu)-Total                         | <0.000011   |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Lead (Pb)-Total                           | <0.0000011  |            | 0.0000011 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Iron (Fe)-Total                           | <0.00068    |            | 0.00068   | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Lithium (Li)-Total                        | <0.00011    |            | 0.00011   | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Magnesium (Mg)-Total                      | <0.00011    |            | 0.00011   | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Manganese (Mn)-Total                      | 0.0000257   |            | 0.0000023 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Molybdenum (Mo)-Total                     | <0.0000011  |            | 0.0000011 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Nickel (Ni)-Total                         | <0.000011   |            | 0.000011  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Phosphorus (P)-Total                      | <0.0011     |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Potassium (K)-Total                       | <0.0011     |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Selenium (Se)-Total                       | <0.000023   |            | 0.000023  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Silicon (Si)-Total                        | <0.0011     |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Silver (Ag)-Total                         | <0.00000023 |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Sodium (Na)-Total                         | <0.0011     |            | 0.0011    | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Strontium (Sr)-Total                      | <0.0000023  |            | 0.0000023 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Thallium (Tl)-Total                       | <0.0000023  |            | 0.0000023 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Tin (Sn)-Total                            | <0.0000023  |            | 0.0000023 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Titanium (Ti)-Total                       | <0.00023    |            | 0.00023   | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Uranium (U)-Total                         | <0.00000023 |            | 0.0000002 | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Vanadium (V)-Total                        | <0.000023   |            | 0.000023  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |
| Zinc (Zn)-Total                           | <0.000068   |            | 0.000068  | mg/dm2.day | 21-MAR-23 | 22-MAR-23 | R5941316 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

**Sample Parameter Qualifier Key:**

| Qualifier | Description   |
|-----------|---|
| DLB       | Detection Limit Raised. Analyte detected at comparable level in Method Blank.   |
| DLDF      | Detection Limit Raised: Dustfall sample isopropanol preservative caused matrix interference on Arsenic and Selenium.                        |
| DUP-H,J   | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.                   |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.  |

**Test Method References:**

| ALS Test Code   | Matrix   | Test Description                         | Method Reference**            |
|---|----------|--|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter   | Air volume (m3)                          | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter   | Air volume (m3)                          | EPA QA Guidance Document 2.12 |
| DUSTFALLS-ALL-DM2-VA  | Dustfall | Dustfalls-Total, Soluble, Insoluble +FV  | BC LAB MANUAL - PARTICULATE   |
| <p>This analysis is carried out using procedures modified from British Columbia Environmental Manual "Particulate."<br/>           Particulates or "Dustfalls" are determined gravimetrically. Total Insoluble and Soluble Dustfalls are determined by filtering a sample through a 0.45 um membrane filter and drying the filter and filtrate at 104 C, followed by ignition at 550 C. The remaining residue after 550 C represents the fixed portion and the weight lost on ignition represents the volatile portion. The sum of all fixed and volatile portions on both Insoluble and Soluble portions represents Total Dustfalls.</p> |          |  |                               |
| HG-DUST(DM2-CVAFS-VA)   | Dustfall | Total Mercury in Dustfalls by CVAFS      | EPA 245.7                     |
| <p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).</p>  |          |  |                               |
| MET+IC/SOLID-CALC-BU  | Filter   | Metals + Anions + Cations / Solids Ratio | Calculation                   |
| MET-DUST(DM2)-MS-VA   | Dustfall | Total Metals in Dustfalls by ICPMS       | EPA 6020A                     |
| <p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>  |          |  |                               |
| MET-IO3.5-MS-BU   | Filter   | Metals on High Volume Filter by ICPMS    | IO3.5                         |
| <p>After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.</p>   |          |  |                               |
| PART-HIVOL-GRAV-BU  | Filter   | Particulate on High Volume Filter        | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter   | PM via Gravimetric Analysis              | EPA QA Guidance Document 2.12 |
| <p>The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.</p>  |          |  |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                                     |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA         |
| VA                         | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

**Chain of Custody Numbers:**

## Reference Information

### Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

#### GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



## Quality Control Report

Workorder: L2748581

Report Date: 31-MAR-23

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5940996</b> |                   |        |           |       |     |        |           |
| <b>WG3782246-3</b>     | <b>DUP</b>      | <b>L2748581-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 29-MAR-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 29-MAR-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 29-MAR-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 29-MAR-23 |
| Copper (Cu)            |                 | 84.2              | 73.4   |           | ug    | 14  | 20     | 29-MAR-23 |
| Iron (Fe)              |                 | 442               | 423    |           | ug    | 4.5 | 25     | 29-MAR-23 |
| Manganese (Mn)         |                 | 24.2              | 21.7   |           | ug    | 11  | 20     | 29-MAR-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 29-MAR-23 |
| Lead (Pb)              |                 | 3.8               | 3.3    |           | ug    | 13  | 20     | 29-MAR-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 29-MAR-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 29-MAR-23 |
| Zinc (Zn)              |                 | 49.1              | 44.8   |           | ug    | 9.0 | 20     | 29-MAR-23 |
| <b>WG3782246-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 95.8   |           | %     |     | 80-120 | 29-MAR-23 |
| Cadmium (Cd)           |                 |                   | 101.6  |           | %     |     | 80-120 | 29-MAR-23 |
| Cobalt (Co)            |                 |                   | 97.8   |           | %     |     | 80-120 | 29-MAR-23 |
| Chromium (Cr)          |                 |                   | 98.8   |           | %     |     | 80-120 | 29-MAR-23 |
| Copper (Cu)            |                 |                   | 100.0  |           | %     |     | 80-120 | 29-MAR-23 |
| Iron (Fe)              |                 |                   | 100.0  |           | %     |     | 80-120 | 29-MAR-23 |
| Manganese (Mn)         |                 |                   | 97.9   |           | %     |     | 80-120 | 29-MAR-23 |
| Nickel (Ni)            |                 |                   | 99.2   |           | %     |     | 80-120 | 29-MAR-23 |
| Lead (Pb)              |                 |                   | 103.0  |           | %     |     | 80-120 | 29-MAR-23 |
| Selenium (Se)          |                 |                   | 105.0  |           | %     |     | 80-120 | 29-MAR-23 |
| Vanadium (V)           |                 |                   | 96.9   |           | %     |     | 80-120 | 29-MAR-23 |
| Zinc (Zn)              |                 |                   | 99.5   |           | %     |     | 80-120 | 29-MAR-23 |
| <b>WG3782246-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 29-MAR-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 29-MAR-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 29-MAR-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 29-MAR-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 29-MAR-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 29-MAR-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 29-MAR-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 29-MAR-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 29-MAR-23 |





## Quality Control Report

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| Test                        | Matrix          | Reference          | Result | Qualifier | Units      | RPD | Limit  | Analyzed  |
|-----------------------------|-----------------|--------------------|--------|-----------|------------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>      |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5940996</b> |                    |        |           |            |     |        |           |
| <b>WG3782246-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Selenium (Se)               |                 |                    | <1.3   |           | ug         |     | 1.25   | 29-MAR-23 |
| Vanadium (V)                |                 |                    | <5.0   |           | ug         |     | 10     | 29-MAR-23 |
| Zinc (Zn)                   |                 |                    | <4.5   |           | ug         |     | 4.5    | 29-MAR-23 |
| <b>WG3782246-4</b>          | <b>MS</b>       | <b>L2748581-1</b>  |        |           |            |     |        |           |
| Arsenic (As)                |                 |                    | 92.1   |           | %          |     | 75-125 | 29-MAR-23 |
| Cadmium (Cd)                |                 |                    | 95.0   |           | %          |     | 75-125 | 29-MAR-23 |
| Cobalt (Co)                 |                 |                    | 91.7   |           | %          |     | 75-125 | 29-MAR-23 |
| Chromium (Cr)               |                 |                    | 92.8   |           | %          |     | 75-125 | 29-MAR-23 |
| Copper (Cu)                 |                 |                    | N/A    | MS-B      | %          |     | -      | 29-MAR-23 |
| Iron (Fe)                   |                 |                    | N/A    | MS-B      | %          |     | -      | 29-MAR-23 |
| Manganese (Mn)              |                 |                    | 82.3   |           | %          |     | 75-125 | 29-MAR-23 |
| Nickel (Ni)                 |                 |                    | 93.7   |           | %          |     | 75-125 | 29-MAR-23 |
| Lead (Pb)                   |                 |                    | 96.6   |           | %          |     | 75-125 | 29-MAR-23 |
| Selenium (Se)               |                 |                    | 93.1   |           | %          |     | 75-125 | 29-MAR-23 |
| Vanadium (V)                |                 |                    | 92.7   |           | %          |     | 75-125 | 29-MAR-23 |
| Zinc (Zn)                   |                 |                    | 90.5   |           | %          |     | 75-125 | 29-MAR-23 |
| <b>PART-HIVOL-GRAV-BU</b>   |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5939919</b> |                    |        |           |            |     |        |           |
| <b>WG3782157-2</b>          | <b>DUP</b>      | <b>L2748581-1</b>  |        |           |            |     |        |           |
| Total particulate           |                 | 30600              | 30600  |           | ug         | 0.0 | 5      | 22-MAR-23 |
| <b>WG3782157-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total particulate           |                 |                    | <100   |           | ug         |     | 100    | 22-MAR-23 |
| <b>PART-M212 F-GRAV-BU</b>  |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5940036</b> |                    |        |           |            |     |        |           |
| <b>WG3782172-2</b>          | <b>DUP</b>      | <b>L2748581-17</b> |        |           |            |     |        |           |
| Total particulate           |                 | 97                 | 97     |           | ug         | 0.0 | 10     | 08-MAR-23 |
| <b>WG3782172-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total particulate           |                 |                    | <15    |           | ug         |     | 15     | 08-MAR-23 |
| <b>DUSTFALLS-ALL-DM2-VA</b> |                 |                    |        |           |            |     |        |           |
|                             | <b>Dustfall</b> |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5940138</b> |                    |        |           |            |     |        |           |
| <b>WG3781943-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total Dustfall              |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 22-MAR-23 |
| Total Insoluble Dustfall    |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 22-MAR-23 |
| Total Soluble Dustfall      |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 22-MAR-23 |
| Fixed Dustfall              |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 22-MAR-23 |



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| Test                                 | Matrix | Reference          | Result     | Qualifier | Units      | RPD      | Limit     | Analyzed  |
|--------------------------------------|--------|--------------------|------------|-----------|------------|----------|-----------|-----------|
| <b>DUSTFALLS-ALL-DM2-VA Dustfall</b> |        |                    |            |           |            |          |           |           |
| <b>Batch R5940138</b>                |        |                    |            |           |            |          |           |           |
| <b>WG3781943-1 MB</b>                |        |                    |            |           |            |          |           |           |
| Fixed Insoluble Dustfall             |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 22-MAR-23 |
| Fixed Soluble Dustfall               |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 22-MAR-23 |
| Volatile Dustfall                    |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 22-MAR-23 |
| Volatile Insoluble Dustfall          |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 22-MAR-23 |
| Volatile Soluble Dustfall            |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 22-MAR-23 |
| <b>HG-DUST(DM2-CVAFS-VA Dustfall</b> |        |                    |            |           |            |          |           |           |
| <b>Batch R5939796</b>                |        |                    |            |           |            |          |           |           |
| <b>WG3781825-3 DUP</b>               |        |                    |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        | <b>L2748581-30</b> | <0.0000011 | RPD-NA    | mg/dm2.day | N/A      | 20        | 28-MAR-23 |
| <b>WG3781825-2 LCS</b>               |        |                    |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |                    | 95.3       |           | %          |          | 70-130    | 28-MAR-23 |
| <b>WG3781825-1 MB</b>                |        |                    |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |                    | <0.0000013 |           | mg/dm2.day |          | 0.0000013 | 28-MAR-23 |
| <b>WG3781825-4 MS</b>                |        |                    |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        | <b>L2748581-31</b> | 94.1       |           | %          |          | 70-130    | 28-MAR-23 |
| <b>MET-DUST(DM2)-MS-VA Dustfall</b>  |        |                    |            |           |            |          |           |           |
| <b>Batch R5938581</b>                |        |                    |            |           |            |          |           |           |
| <b>WG3781824-3 DUP</b>               |        |                    |            |           |            |          |           |           |
| Aluminum (Al)-Total                  |        | <b>L2748581-30</b> | 0.0173     |           | mg/dm2.day | 3.5      | 20        | 21-MAR-23 |
| Antimony (Sb)-Total                  |        |                    | 0.0000038  | J         | mg/dm2.day | 0.000002 | 0.0000044 | 21-MAR-23 |
| Arsenic (As)-Total                   |        |                    | <0.000017  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-MAR-23 |
| Barium (Ba)-Total                    |        |                    | 0.000108   |           | mg/dm2.day | 2.9      | 20        | 21-MAR-23 |
| Beryllium (Be)-Total                 |        |                    | <0.000011  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-MAR-23 |
| Bismuth (Bi)-Total                   |        |                    | <0.000011  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-MAR-23 |
| Boron (B)-Total                      |        |                    | <0.00022   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-MAR-23 |
| Cadmium (Cd)-Total                   |        |                    | 0.0000027  |           | mg/dm2.day | 7.5      | 20        | 21-MAR-23 |
| Calcium (Ca)-Total                   |        |                    | 0.0277     |           | mg/dm2.day | 0.3      | 20        | 21-MAR-23 |
| Chromium (Cr)-Total                  |        |                    | 0.000057   |           | mg/dm2.day | 6.4      | 20        | 21-MAR-23 |
| Cobalt (Co)-Total                    |        |                    | 0.0000090  |           | mg/dm2.day | 5.7      | 20        | 21-MAR-23 |
| Copper (Cu)-Total                    |        |                    | 0.000098   | DUP-H,J   | mg/dm2.day | 0.000023 | 0.000022  | 21-MAR-23 |
| Lead (Pb)-Total                      |        |                    | 0.0000960  |           | mg/dm2.day | 2.5      | 20        | 21-MAR-23 |
| Iron (Fe)-Total                      |        |                    | 0.0168     |           | mg/dm2.day | 0.1      | 20        | 21-MAR-23 |
| Lithium (Li)-Total                   |        |                    | <0.00011   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-MAR-23 |
| Magnesium (Mg)-Total                 |        |                    | 0.00964    |           | mg/dm2.day | 1.1      | 20        | 21-MAR-23 |
| Manganese (Mn)-Total                 |        |                    | 0.000730   |           | mg/dm2.day | 1.0      | 20        | 21-MAR-23 |

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| Test                       | Matrix          | Reference          | Result     | Qualifier | Units      | RPD      | Limit      | Analyzed  |
|----------------------------|-----------------|--------------------|------------|-----------|------------|----------|------------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 |                    |            |           |            |          |            |           |
|                            | <b>Dustfall</b> |                    |            |           |            |          |            |           |
| <b>Batch</b>               | <b>R5938581</b> |                    |            |           |            |          |            |           |
| <b>WG3781824-3</b>         | <b>DUP</b>      | <b>L2748581-30</b> |            |           |            |          |            |           |
| Molybdenum (Mo)-Total      |                 | <0.0000033         | <0.0000033 | RPD-NA    | mg/dm2.day | N/A      | 20         | 21-MAR-23 |
| Nickel (Ni)-Total          |                 | 0.000117           | 0.000103   |           | mg/dm2.day | 12       | 20         | 21-MAR-23 |
| Phosphorus (P)-Total       |                 | <0.0011            | <0.0011    | RPD-NA    | mg/dm2.day | N/A      | 20         | 21-MAR-23 |
| Potassium (K)-Total        |                 | 0.0041             | 0.0042     |           | mg/dm2.day | 1.0      | 20         | 21-MAR-23 |
| Selenium (Se)-Total        |                 | <0.000022          | <0.000022  | RPD-NA    | mg/dm2.day | N/A      | 20         | 21-MAR-23 |
| Silicon (Si)-Total         |                 | 0.0273             | 0.0255     |           | mg/dm2.day | 6.8      | 20         | 21-MAR-23 |
| Silver (Ag)-Total          |                 | 0.00000085         | 0.00000156 | DUP-H,J   | mg/dm2.day | 0.000000 | 0.00000044 | 21-MAR-23 |
| Sodium (Na)-Total          |                 | 0.0036             | 0.0035     |           | mg/dm2.day | 2.1      | 20         | 21-MAR-23 |
| Strontium (Sr)-Total       |                 | 0.0000912          | 0.0000896  |           | mg/dm2.day | 1.8      | 20         | 21-MAR-23 |
| Thallium (Tl)-Total        |                 | <0.0000022         | <0.0000022 | RPD-NA    | mg/dm2.day | N/A      | 20         | 21-MAR-23 |
| Tin (Sn)-Total             |                 | <0.0000022         | <0.0000022 | RPD-NA    | mg/dm2.day | N/A      | 20         | 21-MAR-23 |
| Titanium (Ti)-Total        |                 | 0.00035            | 0.00035    |           | mg/dm2.day | 0.1      | 20         | 21-MAR-23 |
| Uranium (U)-Total          |                 | 0.00000038         | 0.00000031 |           | mg/dm2.day | 20       | 20         | 21-MAR-23 |
| Vanadium (V)-Total         |                 | 0.000023           | 0.000023   |           | mg/dm2.day | 1.1      | 20         | 21-MAR-23 |
| Zinc (Zn)-Total            |                 | 0.000719           | 0.000608   |           | mg/dm2.day | 17       | 20         | 21-MAR-23 |
| <b>WG3781824-2</b>         | <b>LCS</b>      |                    |            |           |            |          |            |           |
| Aluminum (Al)-Total        |                 |                    | 104.3      |           | %          |          | 80-120     | 21-MAR-23 |
| Antimony (Sb)-Total        |                 |                    | 104.1      |           | %          |          | 80-120     | 21-MAR-23 |
| Arsenic (As)-Total         |                 |                    | 103.4      |           | %          |          | 80-120     | 21-MAR-23 |
| Barium (Ba)-Total          |                 |                    | 104.8      |           | %          |          | 80-120     | 21-MAR-23 |
| Beryllium (Be)-Total       |                 |                    | 102.0      |           | %          |          | 80-120     | 21-MAR-23 |
| Bismuth (Bi)-Total         |                 |                    | 99.6       |           | %          |          | 80-120     | 21-MAR-23 |
| Boron (B)-Total            |                 |                    | 98.2       |           | %          |          | 80-120     | 21-MAR-23 |
| Cadmium (Cd)-Total         |                 |                    | 101.2      |           | %          |          | 80-120     | 21-MAR-23 |
| Calcium (Ca)-Total         |                 |                    | 99.9       |           | %          |          | 80-120     | 21-MAR-23 |
| Chromium (Cr)-Total        |                 |                    | 96.8       |           | %          |          | 80-120     | 21-MAR-23 |
| Cobalt (Co)-Total          |                 |                    | 99.4       |           | %          |          | 80-120     | 21-MAR-23 |
| Copper (Cu)-Total          |                 |                    | 98.0       |           | %          |          | 80-120     | 21-MAR-23 |
| Lead (Pb)-Total            |                 |                    | 101.5      |           | %          |          | 80-120     | 21-MAR-23 |
| Iron (Fe)-Total            |                 |                    | 104.6      |           | %          |          | 80-120     | 21-MAR-23 |
| Lithium (Li)-Total         |                 |                    | 102.8      |           | %          |          | 80-120     | 21-MAR-23 |
| Magnesium (Mg)-Total       |                 |                    | 101.4      |           | %          |          | 80-120     | 21-MAR-23 |
| Manganese (Mn)-Total       |                 |                    | 101.4      |           | %          |          | 80-120     | 21-MAR-23 |
| Molybdenum (Mo)-Total      |                 |                    | 99.2       |           | %          |          | 80-120     | 21-MAR-23 |



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| Test                       | Matrix          | Reference       | Result    | Qualifier | Units      | RPD | Limit    | Analyzed  |
|----------------------------|-----------------|-----------------|-----------|-----------|------------|-----|----------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 | <b>Dustfall</b> |           |           |            |     |          |           |
| <b>Batch</b>               | <b>R5938581</b> |                 |           |           |            |     |          |           |
| <b>WG3781824-2 LCS</b>     |                 |                 |           |           |            |     |          |           |
| Nickel (Ni)-Total          |                 |                 | 97.2      |           | %          |     | 80-120   | 21-MAR-23 |
| Phosphorus (P)-Total       |                 |                 | 103.6     |           | %          |     | 80-120   | 21-MAR-23 |
| Potassium (K)-Total        |                 |                 | 102.1     |           | %          |     | 80-120   | 21-MAR-23 |
| Selenium (Se)-Total        |                 |                 | 98.9      |           | %          |     | 80-120   | 21-MAR-23 |
| Silicon (Si)-Total         |                 |                 | 102.8     |           | %          |     | 80-120   | 21-MAR-23 |
| Silver (Ag)-Total          |                 |                 | 90.1      |           | %          |     | 80-120   | 21-MAR-23 |
| Sodium (Na)-Total          |                 |                 | 98.7      |           | %          |     | 80-120   | 21-MAR-23 |
| Strontium (Sr)-Total       |                 |                 | 101.7     |           | %          |     | 80-120   | 21-MAR-23 |
| Thallium (Tl)-Total        |                 |                 | 102.3     |           | %          |     | 80-120   | 21-MAR-23 |
| Tin (Sn)-Total             |                 |                 | 98.0      |           | %          |     | 80-120   | 21-MAR-23 |
| Titanium (Ti)-Total        |                 |                 | 91.8      |           | %          |     | 80-120   | 21-MAR-23 |
| Uranium (U)-Total          |                 |                 | 102.9     |           | %          |     | 80-120   | 21-MAR-23 |
| Vanadium (V)-Total         |                 |                 | 101.0     |           | %          |     | 80-120   | 21-MAR-23 |
| Zinc (Zn)-Total            |                 |                 | 100.3     |           | %          |     | 80-120   | 21-MAR-23 |
| <b>WG3781824-1 MB</b>      |                 |                 |           |           |            |     |          |           |
| Aluminum (Al)-Total        |                 |                 | <0.000079 |           | mg/dm2.day |     | 0.000079 | 21-MAR-23 |
| Antimony (Sb)-Total        |                 |                 | <0.000026 |           | mg/dm2.day |     | 0.000026 | 21-MAR-23 |
| Arsenic (As)-Total         |                 |                 | <0.000026 |           | mg/dm2.day |     | 0.000026 | 21-MAR-23 |
| Barium (Ba)-Total          |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Beryllium (Be)-Total       |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Bismuth (Bi)-Total         |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Boron (B)-Total            |                 |                 | <0.00026  |           | mg/dm2.day |     | 0.00026  | 21-MAR-23 |
| Cadmium (Cd)-Total         |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Calcium (Ca)-Total         |                 |                 | <0.00052  |           | mg/dm2.day |     | 0.00052  | 21-MAR-23 |
| Chromium (Cr)-Total        |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Cobalt (Co)-Total          |                 |                 | <0.000026 |           | mg/dm2.day |     | 0.000026 | 21-MAR-23 |
| Copper (Cu)-Total          |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Lead (Pb)-Total            |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Iron (Fe)-Total            |                 |                 | <0.00079  |           | mg/dm2.day |     | 0.00079  | 21-MAR-23 |
| Lithium (Li)-Total         |                 |                 | <0.00013  |           | mg/dm2.day |     | 0.00013  | 21-MAR-23 |
| Magnesium (Mg)-Total       |                 |                 | <0.00013  |           | mg/dm2.day |     | 0.00013  | 21-MAR-23 |
| Manganese (Mn)-Total       |                 |                 | <0.000026 |           | mg/dm2.day |     | 0.000026 | 21-MAR-23 |
| Molybdenum (Mo)-Total      |                 |                 | 0.0000187 | MB-LOR    | mg/dm2.day |     | 0.000013 | 21-MAR-23 |
| Nickel (Ni)-Total          |                 |                 | <0.000013 |           | mg/dm2.day |     | 0.000013 | 21-MAR-23 |



## Quality Control Report

Workorder: L2748581

Report Date: 31-MAR-23

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| Test                       | Matrix          | Reference | Result     | Qualifier | Units      | RPD | Limit      | Analyzed  |
|----------------------------|-----------------|-----------|------------|-----------|------------|-----|------------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> | <b>Dustfall</b> |           |            |           |            |     |            |           |
| <b>Batch</b>               | <b>R5938581</b> |           |            |           |            |     |            |           |
| <b>WG3781824-1 MB</b>      |                 |           |            |           |            |     |            |           |
| Phosphorus (P)-Total       |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-MAR-23 |
| Potassium (K)-Total        |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-MAR-23 |
| Selenium (Se)-Total        |                 |           | <0.000026  |           | mg/dm2.day |     | 0.000026   | 21-MAR-23 |
| Silicon (Si)-Total         |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-MAR-23 |
| Silver (Ag)-Total          |                 |           | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 21-MAR-23 |
| Sodium (Na)-Total          |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-MAR-23 |
| Strontium (Sr)-Total       |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-MAR-23 |
| Thallium (Tl)-Total        |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-MAR-23 |
| Tin (Sn)-Total             |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-MAR-23 |
| Titanium (Ti)-Total        |                 |           | <0.00026   |           | mg/dm2.day |     | 0.00026    | 21-MAR-23 |
| Uranium (U)-Total          |                 |           | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 21-MAR-23 |
| Vanadium (V)-Total         |                 |           | <0.000026  |           | mg/dm2.day |     | 0.000026   | 21-MAR-23 |
| Zinc (Zn)-Total            |                 |           | <0.000079  |           | mg/dm2.day |     | 0.000079   | 21-MAR-23 |

# Quality Control Report

Workorder: L2748581

Report Date: 31-MAR-23

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description   |
|-----------|---|
| DUP-H,J   | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| J         | Duplicate results and limits are expressed in terms of absolute difference.   |
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.                   |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.  |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.   |

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## Hold Time Exceedances:

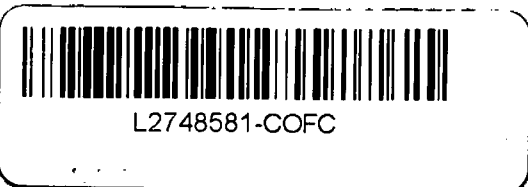
All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2748581-COFC



Chain of Custody / Analytical Request Form  
 1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
 Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

| Report To                                |   | Report Format / Distribution     |                 |             | Service Requested  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|--|---|----------------------------------|-----------------|-------------|--|--------|-------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Company: New Gold Inc.                   |   |                                  |                 |             | Regular Service  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Contact: Robyn Lloyd                     |   |                                  |                 |             | Rush Service (with prior consultation) - surcharge applies |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Address: 124 Marr Rd. Barwick ON P0W 1A0 |   | Email 1: robyn.lloyd@newgold.com |                 |             | Other - Please contact ALS                                 |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Phone: 807-234-8200 ext. 8029 Fax:       |   | Email 2:                         |                 |             | Analysis Request   |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Invoice To: Same as Report               |   | Client / Project Information     |                 |             | TSP and Metals   |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Company:                                 |   | Job #: Air Quality               |                 |             | Pm 2.5   |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Contact:                                 |   | Location:                        |                 |             | Dustfall Incl. volatile                                    |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Address:                                 |   | PO: 4500059107                   |                 |             | Hazardous? Provide Det                                     |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Phone: Fax:                              |   | Sampled by:                      |                 |             | Highly Contaminated?                                       |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Lab Work Order #                         |   | ALS Contact:                     |                 |             | Number of Containers                                       |        |                         |  |  |  |  |  |  |  |  |  |  |  |
| Sample #                                 | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)               | Time<br>(hh:mm) | Sample Type | TSP  | Pm 2.5 | Dustfall Incl. volatile |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-467   | 30-Jan-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-467   | 30-Jan-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-467   | 30-Jan-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-468   | 5-Feb-2023                       | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-468   | 5-Feb-2023                       | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-468   | 5-Feb-2023                       | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-469   | 11-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-469   | 11-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-469   | 11-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-470   | 17-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-470   | 17-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-470   | 17-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-471   | 23-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-471   | 23-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-471   | 23-Feb-2023                      | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | TRIP BLANK - FEBRUARY TSP   | 3-Mar-2023                       | 12:00           | Air         | X  |        |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-467   | 30-Jan-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-467   | 30-Jan-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-PM2.5-467   | 30-Jan-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-468   | 5-Feb-2023                       | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-468   | 5-Feb-2023                       | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-PM2.5-468   | 5-Feb-2023                       | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-469   | 11-Feb-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-469   | 11-Feb-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-470   | 17-Feb-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-470   | 17-Feb-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-471   | 23-Feb-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-471   | 23-Feb-2023                      | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | TRIP BLANK - FEBRUARY PM2.5   | 3-Mar-2023                       | 12:00           | Air         |  | X      |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall - Gallinger Road   | 2-Mar-2023                       | 12:00           | Air         |  |        | X                       |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall - Tait Road (South)  | 2-Mar-2023                       | 12:00           | Air         |  |        | X                       |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall- Northwest   | 28-Feb-2023                      | 12:00           | Air         |  |        | X                       |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall - Trip Blank   | 3-Mar-2023                       | 12:00           | Air         |  |        | X                       |  |  |  |  |  |  |  |  |  |  |  |

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

|              |                 |              |              |              |       |              |              |       |       |                             |
|--------------|-----------------|--------------|--------------|--------------|-------|--------------|--------------|-------|-------|-----------------------------|
| Released by: | Date (dd-mm-yy) | Time (hh:mm) | Received by: | Date:        | Time: | Temperature: | Verified by: | Date: | Time: | Observations:               |
|              |                 |              | AARON BULTON | 8-march 2023 | 11:45 | 17.9 °C      |              |       |       | Yes (No?)<br>If Yes add SIF |



New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 06-FEB-23  
Report Date: 27-FEB-23 08:50 (MT)  
Version: FINAL

Client Phone: 807-234-8200

## Certificate of Analysis

Lab Work Order #: L2746381  
Project P.O. #: 4500059107  
Job Reference:  
C of C Numbers:  
Legal Site Desc:

Claire Kocharakkal, B.Sc.  
Project Manager

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ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567  
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## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2746381-1 NORTH-TSP-462<br>Sampled By: Client on 31-DEC-22<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 22400  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 59.4   |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 279    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 9.2    |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 23.2   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-2 NORTH-TSP-463<br>Sampled By: Client on 06-JAN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 24400  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 154    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 318    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 23.8   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | 3.5    |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | 3.9    |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 51.8   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-3 NORTH-TSP-464<br>Sampled By: Client on 12-JAN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 9900   |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 207    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 77     |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 24.2   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 12.2   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2746381-4 NORTH-TSP-465<br>Sampled By: Client on 18-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 14500  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 163    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 225    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 5.9    |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 14.2   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-5 NORTH-TSP-466<br>Sampled By: Client on 24-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 21700  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 171    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 316    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 10.8   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 20.3   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-6 SOUTH-TSP-462<br>Sampled By: Client on 31-DEC-22<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 17700  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 195    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 219    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 4.7    |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 12.7   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2746381-7 SOUTH-TSP-463<br>Sampled By: Client on 06-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 24200  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 477    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 312    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 16.5   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 34.2   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-8 SOUTH-TSP-464<br>Sampled By: Client on 12-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 34900  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 351    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 518    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 22.1   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 35.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-9 SOUTH-TSP-465<br>Sampled By: Client on 18-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 31500  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | 230    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 298    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | 12.0   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | 24.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2746381-10 SOUTH-TSP-466<br>Sampled By: Client on 24-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 138000 |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | 4.4    |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)   | 806    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)   | 1560   |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)  | 72.9   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)   | 18.4   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)   | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)   | 176    |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-11 NORTHWEST-TSP-462<br>Sampled By: Client on 31-DEC-22<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 60900  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)   | 97.7   |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)   | 986    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)  | 45.9   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)   | 12.8   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)   | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)   | 60.3   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-12 NORTHWEST-TSP-463<br>Sampled By: Client on 06-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 17500  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)   | 464    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)   | 192    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)  | 7.2    |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)   | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)   | 23.4   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2746381-13 NORTHWEST-TSP-464<br>Sampled By: Client on 12-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 10500  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)   | 405    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)   | 90     |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)  | 5.0    |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)   | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)   | 9.1    |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-14 NORTHWEST-TSP-465<br>Sampled By: Client on 18-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 45100  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)   | 6.1    |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)   | 246    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)   | 828    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)  | 30.9   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)   | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)   | 24.9   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-15 NORTHWEST-TSP-466<br>Sampled By: Client on 24-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 23100  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)   | 318    |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)   | 347    |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)  | 14.8   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)   | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)   | 21.6   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2746381-16 TSP-TRIP BLANK JANUARY<br>Sampled By: Client on 31-JAN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 13-FEB-23 | R5926076 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Copper (Cu)  | <4.0   |            | 4.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Iron (Fe)  | 20     |            | 20   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Manganese (Mn)   | <1.0   |            | 1.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Selenium (Se)  | <10    |            | 10   | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| Zinc (Zn)  | <5.0   |            | 5.0  | ug    | 09-FEB-23 | 10-FEB-23 | R5925856 |
| L2746381-17 NORTH-PM2.5-462<br>Sampled By: Client on 31-DEC-22<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 129    |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-18 NORTH-PM2.5-463<br>Sampled By: Client on 06-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 64     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-19 NORTH-PM2.5-464<br>Sampled By: Client on 12-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 72     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-20 NORTH-PM2.5-465<br>Sampled By: Client on 18-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 66     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-21 NORTH-PM2.5-466<br>Sampled By: Client on 24-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 74     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-22 SOUTH-PM2.5-462<br>Sampled By: Client on 31-DEC-22<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 134    |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-23 SOUTH-PM2.5-463<br>Sampled By: Client on 06-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                               |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2746381-23 SOUTH-PM2.5-463<br>Sampled By: Client on 06-JAN-23<br>Matrix: 47mm Filter<br>Total particulate   | 92     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-24 SOUTH-PM2.5-464<br>Sampled By: Client on 12-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 70     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-25 SOUTH-PM2.5-465<br>Sampled By: Client on 18-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 71     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-26 SOUTH-PM2.5-466<br>Sampled By: Client on 24-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 65     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-27 NORTHWEST-PM2.5-462<br>Sampled By: Client on 31-DEC-22<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 183    |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-28 NORTHWEST-PM2.5-463<br>Sampled By: Client on 06-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 91     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-29 NORTHWEST-PM2.5-464<br>Sampled By: Client on 12-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | <15    |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-30 NORTHWEST-PM2.5-465<br>Sampled By: Client on 18-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 27     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-31 NORTHWEST-PM2.5-466<br>Sampled By: Client on 24-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 68     |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
| L2746381-32 PM2.5-TRIP BLANK JANUARY<br>Sampled By: Client on 31-JAN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <15    |            | 15   | ug    |           | 14-FEB-23 | R5926057 |
|  |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result      | Qualifier* | D.L.       | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|------------|------------|-----------|-----------|----------|
| L2746381-33 DUSTFALL-GALLINGER ROAD            |             |            |            |            |           |           |          |
| Sampled By: Client on 28-JAN-23                |             |            |            |            |           |           |          |
| Matrix: Dustfall                               |             |            |            |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |            |            |           |           |          |
| Total Dustfall                                 | 0.33        |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Insoluble Dustfall                       | 0.26        |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Soluble Dustfall                         | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Dustfall                                 | 0.27        |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Insoluble Dustfall                       | 0.26        |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Soluble Dustfall                         | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Dustfall                              | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Insoluble Dustfall                    | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Soluble Dustfall                      | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Interval                                       |             |            | 1          | days       |           | 18-FEB-23 | R5927599 |
| Mercury (Hg)-Total                             | <0.00000099 |            | 0.00000099 | mg/dm2.day | 18-FEB-23 | 22-FEB-23 | R5928281 |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |            |            |           |           |          |
| Aluminum (Al)-Total                            | 0.00454     |            | 0.000059   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Interval                                       |             |            | 1          | days       |           | 19-FEB-23 | R5927619 |
| Interval                                       |             |            | 1          | days       |           | 23-FEB-23 | R5929036 |
| Antimony (Sb)-Total                            | <0.0000020  |            | 0.0000020  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Arsenic (As)-Total                             | 0.0000062   |            | 0.0000020  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Barium (Ba)-Total                              | 0.0000263   |            | 0.00000099 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Beryllium (Be)-Total                           | <0.0000099  |            | 0.0000099  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Bismuth (Bi)-Total                             | <0.0000099  |            | 0.0000099  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Boron (B)-Total                                | <0.00020    |            | 0.00020    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cadmium (Cd)-Total                             | <0.00000099 |            | 0.00000099 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Calcium (Ca)-Total                             | 0.00773     |            | 0.00039    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Chromium (Cr)-Total                            | <0.0000099  |            | 0.0000099  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cobalt (Co)-Total                              | <0.0000020  |            | 0.0000020  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Copper (Cu)-Total                              | 0.0000393   |            | 0.0000099  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lead (Pb)-Total                                | 0.00000819  |            | 0.00000099 | mg/dm2.day | 23-FEB-23 | 24-FEB-23 | R5930076 |
| Iron (Fe)-Total                                | 0.00388     |            | 0.00059    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lithium (Li)-Total                             | <0.000099   |            | 0.000099   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Magnesium (Mg)-Total                           | 0.00203     |            | 0.000099   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Manganese (Mn)-Total                           | 0.000205    |            | 0.0000020  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Molybdenum (Mo)-Total                          | <0.00000099 |            | 0.00000099 | mg/dm2.day | 23-FEB-23 | 24-FEB-23 | R5930076 |
| Nickel (Ni)-Total                              | 0.0000126   |            | 0.0000099  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Phosphorus (P)-Total                           | <0.00099    |            | 0.00099    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Potassium (K)-Total                            | <0.00099    |            | 0.00099    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Selenium (Se)-Total                            | <0.000020   |            | 0.000020   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silicon (Si)-Total                             | 0.00595     |            | 0.00099    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silver (Ag)-Total                              | 0.00000027  |            | 0.00000020 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Sodium (Na)-Total                              | 0.00215     |            | 0.00099    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Strontium (Sr)-Total                           | 0.0000207   |            | 0.0000020  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Thallium (Tl)-Total                            | <0.0000020  |            | 0.0000020  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Tin (Sn)-Total                                 | <0.0000020  |            | 0.0000020  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Titanium (Ti)-Total                            | <0.00020    |            | 0.00020    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Uranium (U)-Total                              | <0.00000020 |            | 0.00000020 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Vanadium (V)-Total                             | <0.000020   |            | 0.000020   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result      | Qualifier* | D.L.      | Units      | Extracted | Analyzed  | Batch    |
|---|-------------|------------|-----------|------------|-----------|-----------|----------|
| L2746381-33 DUSTFALL-GALLINGER ROAD<br>Sampled By: Client on 28-JAN-23<br>Matrix: Dustfall<br><b>Total Metals in Dustfalls by ICPMS</b>         |             |            |           |            |           |           |          |
| Zinc (Zn)-Total   | 0.000241    |            | 0.000059  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| L2746381-34 DUSTFALL-TAIT ROAD (SOUTH)<br>Sampled By: Client on 28-JAN-23<br>Matrix: Dustfall<br><b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |           |            |           |           |          |
| Total Dustfall  | 0.56        |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Insoluble Dustfall  | 0.48        |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Soluble Dustfall  | <0.10       |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Dustfall  | 0.50        |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Insoluble Dustfall  | 0.49        |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Soluble Dustfall  | <0.10       |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Dustfall   | <0.10       |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Insoluble Dustfall   | <0.10       |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Soluble Dustfall   | <0.10       |            | 0.10      | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Interval  |             |            | 1         | days       |           | 18-FEB-23 | R5927599 |
| Mercury (Hg)-Total  | <0.00000096 |            | 0.0000009 | mg/dm2.day | 18-FEB-23 | 22-FEB-23 | R5928281 |
|   |             |            | 6         |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>   |             |            |           |            |           |           |          |
| Aluminum (Al)-Total   | 0.00433     |            | 0.000058  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Interval  |             |            | 1         | days       |           | 19-FEB-23 | R5927619 |
| Antimony (Sb)-Total   | <0.0000019  |            | 0.0000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Arsenic (As)-Total  | 0.0000061   |            | 0.0000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Barium (Ba)-Total   | 0.0000307   |            | 0.0000009 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
|   |             |            | 6         |            |           |           |          |
| Beryllium (Be)-Total  | <0.0000096  |            | 0.0000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Bismuth (Bi)-Total  | <0.0000096  |            | 0.0000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Boron (B)-Total   | <0.00019    |            | 0.00019   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cadmium (Cd)-Total  | <0.00000096 |            | 0.0000009 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
|   |             |            | 6         |            |           |           |          |
| Calcium (Ca)-Total  | 0.0109      |            | 0.00038   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Chromium (Cr)-Total   | <0.0000096  |            | 0.0000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cobalt (Co)-Total   | <0.0000019  |            | 0.0000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Copper (Cu)-Total   | 0.0000766   |            | 0.0000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lead (Pb)-Total   | 0.0000126   |            | 0.0000009 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
|   |             |            | 6         |            |           |           |          |
| Iron (Fe)-Total   | 0.00285     |            | 0.00058   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lithium (Li)-Total  | <0.000096   |            | 0.000096  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Magnesium (Mg)-Total  | 0.00228     |            | 0.000096  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Manganese (Mn)-Total  | 0.000276    |            | 0.0000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Molybdenum (Mo)-Total   | <0.00000096 |            | 0.0000009 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
|   |             |            | 6         |            |           |           |          |
| Nickel (Ni)-Total   | 0.0000101   |            | 0.0000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Phosphorus (P)-Total  | <0.00096    |            | 0.00096   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Potassium (K)-Total   | 0.00131     |            | 0.00096   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Selenium (Se)-Total   | <0.000019   |            | 0.000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silicon (Si)-Total  | 0.00557     |            | 0.00096   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silver (Ag)-Total   | 0.00000040  |            | 0.0000001 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
|   |             |            | 9         |            |           |           |          |
| Sodium (Na)-Total   | 0.00181     |            | 0.00096   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Strontium (Sr)-Total  | 0.0000220   |            | 0.0000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Thallium (Tl)-Total   | <0.0000019  |            | 0.0000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Tin (Sn)-Total  | <0.0000019  |            | 0.0000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result      | Qualifier* | D.L.       | Units      | Extracted | Analyzed  | Batch    |
|---|-------------|------------|------------|------------|-----------|-----------|----------|
| L2746381-34 DUSTFALL-TAIT ROAD (SOUTH)<br>Sampled By: Client on 28-JAN-23<br>Matrix: Dustfall |             |            |            |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>   |             |            |            |            |           |           |          |
| Titanium (Ti)-Total   | <0.00019    |            | 0.00019    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Uranium (U)-Total   | <0.00000019 |            | 0.00000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Vanadium (V)-Total  | <0.000019   |            | 0.000019   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Zinc (Zn)-Total   | 0.000180    |            | 0.000058   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| L2746381-35 DUSTFALL-NORTHWEST<br>Sampled By: Client on 28-JAN-23<br>Matrix: Dustfall         |             |            |            |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b>  |             |            |            |            |           |           |          |
| Total Dustfall  | 0.16        |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Insoluble Dustfall  | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Soluble Dustfall  | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Dustfall  | 0.12        |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Insoluble Dustfall  | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Soluble Dustfall  | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Dustfall   | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Insoluble Dustfall   | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Soluble Dustfall   | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Interval  |             |            | 1          | days       |           | 18-FEB-23 | R5927599 |
| Mercury (Hg)-Total  | <0.00000096 |            | 0.00000096 | mg/dm2.day | 18-FEB-23 | 22-FEB-23 | R5928281 |
| <b>Total Metals in Dustfalls by ICPMS</b>   |             |            |            |            |           |           |          |
| Aluminum (Al)-Total   | 0.00217     |            | 0.000058   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Interval  |             |            | 1          | days       |           | 19-FEB-23 | R5927619 |
| Antimony (Sb)-Total   | <0.0000019  |            | 0.0000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Arsenic (As)-Total  | 0.0000031   |            | 0.0000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Barium (Ba)-Total   | 0.0000200   |            | 0.00000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Beryllium (Be)-Total  | <0.0000096  |            | 0.0000096  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Bismuth (Bi)-Total  | <0.0000096  |            | 0.0000096  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Boron (B)-Total   | <0.00019    |            | 0.00019    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cadmium (Cd)-Total  | <0.00000096 |            | 0.00000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Calcium (Ca)-Total  | 0.00548     |            | 0.00038    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Chromium (Cr)-Total   | <0.0000096  |            | 0.0000096  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cobalt (Co)-Total   | <0.0000019  |            | 0.0000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Copper (Cu)-Total   | 0.0000275   |            | 0.0000096  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lead (Pb)-Total   | 0.00000578  |            | 0.00000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Iron (Fe)-Total   | 0.00201     |            | 0.00058    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lithium (Li)-Total  | <0.000096   |            | 0.000096   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Magnesium (Mg)-Total  | 0.00144     |            | 0.000096   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Manganese (Mn)-Total  | 0.000107    |            | 0.0000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Molybdenum (Mo)-Total   | <0.00000096 |            | 0.00000096 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Nickel (Ni)-Total   | <0.0000096  |            | 0.0000096  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Phosphorus (P)-Total  | <0.00096    |            | 0.00096    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Potassium (K)-Total   | 0.00096     |            | 0.00096    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Selenium (Se)-Total   | <0.000019   |            | 0.000019   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silicon (Si)-Total  | 0.00337     |            | 0.00096    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silver (Ag)-Total   | <0.00000019 |            | 0.00000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result      | Qualifier* | D.L.       | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|------------|------------|-----------|-----------|----------|
| L2746381-35 DUSTFALL-NORTHWEST                 |             |            |            |            |           |           |          |
| Sampled By: Client on 28-JAN-23                |             |            |            |            |           |           |          |
| Matrix: Dustfall                               |             |            |            |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |            |            |           |           |          |
| Sodium (Na)-Total                              | 0.00197     |            | 0.00096    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Strontium (Sr)-Total                           | 0.0000130   |            | 0.0000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Thallium (Tl)-Total                            | <0.0000019  |            | 0.0000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Tin (Sn)-Total                                 | <0.0000019  |            | 0.0000019  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Titanium (Ti)-Total                            | <0.00019    |            | 0.00019    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Uranium (U)-Total                              | <0.00000019 |            | 0.00000019 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Vanadium (V)-Total                             | <0.000019   |            | 0.000019   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Zinc (Zn)-Total                                | 0.000078    |            | 0.000058   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| L2746381-36 DUSTFALL-TRIP BLANK JANUARY        |             |            |            |            |           |           |          |
| Sampled By: Client on 31-JAN-23                |             |            |            |            |           |           |          |
| Matrix: Dustfall                               |             |            |            |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |            |            |           |           |          |
| Total Dustfall                                 | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Insoluble Dustfall                       | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Total Soluble Dustfall                         | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Dustfall                                 | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Insoluble Dustfall                       | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Fixed Soluble Dustfall                         | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Dustfall                              | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Insoluble Dustfall                    | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Volatile Soluble Dustfall                      | <0.10       |            | 0.10       | mg/dm2.day |           | 21-FEB-23 | R5929436 |
| Interval                                       |             |            | 1          | days       |           | 18-FEB-23 | R5927600 |
| Mercury (Hg)-Total                             | <0.0000013  |            | 0.0000013  | mg/dm2.day | 18-FEB-23 | 22-FEB-23 | R5928281 |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |            |            |           |           |          |
| Aluminum (Al)-Total                            | <0.000078   |            | 0.000078   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Interval                                       |             |            | 1          | days       |           | 19-FEB-23 | R5927620 |
| Antimony (Sb)-Total                            | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Arsenic (As)-Total                             | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Barium (Ba)-Total                              | <0.0000013  |            | 0.0000013  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Beryllium (Be)-Total                           | <0.000013   |            | 0.000013   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Bismuth (Bi)-Total                             | <0.000013   |            | 0.000013   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Boron (B)-Total                                | <0.00026    |            | 0.00026    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cadmium (Cd)-Total                             | <0.0000013  |            | 0.0000013  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Calcium (Ca)-Total                             | <0.00052    |            | 0.00052    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Chromium (Cr)-Total                            | <0.000013   |            | 0.000013   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Cobalt (Co)-Total                              | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Copper (Cu)-Total                              | <0.000013   |            | 0.000013   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lead (Pb)-Total                                | <0.0000013  |            | 0.0000013  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Iron (Fe)-Total                                | <0.00078    |            | 0.00078    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Lithium (Li)-Total                             | <0.00013    |            | 0.00013    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Magnesium (Mg)-Total                           | <0.00013    |            | 0.00013    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Manganese (Mn)-Total                           | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Molybdenum (Mo)-Total                          | <0.0000013  |            | 0.0000013  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Nickel (Ni)-Total                              | <0.000013   |            | 0.000013   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Phosphorus (P)-Total                           | <0.0013     |            | 0.0013     | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Potassium (K)-Total                            | <0.0013     |            | 0.0013     | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Selenium (Se)-Total                            | <0.000026   |            | 0.000026   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silicon (Si)-Total                             | <0.0013     |            | 0.0013     | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Silver (Ag)-Total                              | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                 | Result      | Qualifier* | D.L.       | Units      | Extracted | Analyzed  | Batch    |
|---|-------------|------------|------------|------------|-----------|-----------|----------|
| L2746381-36 DUSTFALL-TRIP BLANK JANUARY   |             |            |            |            |           |           |          |
| Sampled By: Client on 31-JAN-23           |             |            |            |            |           |           |          |
| Matrix: Dustfall                          |             |            |            |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b> |             |            |            |            |           |           |          |
| Sodium (Na)-Total                         | <0.0013     |            | 0.0013     | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Strontium (Sr)-Total                      | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Thallium (Tl)-Total                       | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Tin (Sn)-Total                            | <0.0000026  |            | 0.0000026  | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Titanium (Ti)-Total                       | <0.00026    |            | 0.00026    | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Uranium (U)-Total                         | <0.00000026 |            | 0.00000026 | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Vanadium (V)-Total                        | <0.000026   |            | 6          | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |
| Zinc (Zn)-Total                           | <0.000078   |            | 0.000078   | mg/dm2.day | 19-FEB-23 | 21-FEB-23 | R5928217 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

| ALS Test Code  | Matrix   | Test Description                         | Method Reference**            |
|--|----------|--|-------------------------------|
| AIR VOLUME-HIVOL-BU  | Filter   | Air volume (m3)                          | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU   | Filter   | Air volume (m3)                          | EPA QA Guidance Document 2.12 |
| DUSTFALLS-ALL-DM2-VA   | Dustfall | Dustfalls-Total, Soluble, Insoluble +FV  | BC LAB MANUAL - PARTICULATE   |
| <p>This analysis is carried out using procedures modified from British Columbia Environmental Manual "Particulate." Particulates or "Dustfalls" are determined gravimetrically. Total Insoluble and Soluble Dustfalls are determined by filtering a sample through a 0.45 um membrane filter and drying the filter and filtrate at 104 C, followed by ignition at 550 C. The remaining residue after 550 C represents the fixed portion and the weight lost on ignition represents the volatile portion. The sum of all fixed and volatile portions on both Insoluble and Soluble portions represents Total Dustfalls.</p> |          |  |                               |
| HG-DUST(DM2-CVAFS-VA)  | Dustfall | Total Mercury in Dustfalls by CVAFS      | EPA 245.7                     |
| <p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).</p>   |          |  |                               |
| MET+IC/SOLID-CALC-BU   | Filter   | Metals + Anions + Cations / Solids Ratio | Calculation                   |
| MET-DUST(DM2)-MS-VA  | Dustfall | Total Metals in Dustfalls by ICPMS       | EPA 6020A                     |
| <p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>   |          |  |                               |
| MET-IO3.5-MS-BU  | Filter   | Metals on High Volume Filter by ICPMS    | IO3.5                         |
| <p>After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.</p>  |          |  |                               |
| PART-HIVOL-GRAV-BU   | Filter   | Particulate on High Volume Filter        | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU  | Filter   | PM via Gravimetric Analysis              | EPA QA Guidance Document 2.12 |
| <p>The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.</p>   |          |  |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                                     |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA         |
| VA                         | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*



# Quality Control Report

Workorder: L2746381

Report Date: 27-FEB-23

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0  
 Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5925856</b> |                   |        |           |       |     |        |           |
| <b>WG3779870-3</b>     | <b>DUP</b>      | <b>L2746381-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Copper (Cu)            |                 | 59.4              | 57.6   |           | ug    | 3.1 | 20     | 10-FEB-23 |
| Iron (Fe)              |                 | 279               | 284    |           | ug    | 1.6 | 25     | 10-FEB-23 |
| Manganese (Mn)         |                 | 9.2               | 11.9   | DUP-H     | ug    | 25  | 20     | 10-FEB-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 10-FEB-23 |
| Zinc (Zn)              |                 | 23.2              | 23.0   |           | ug    | 1.0 | 20     | 10-FEB-23 |
| <b>WG3779870-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 106.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Cadmium (Cd)           |                 |                   | 112.8  |           | %     |     | 80-120 | 10-FEB-23 |
| Cobalt (Co)            |                 |                   | 113.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Chromium (Cr)          |                 |                   | 109.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Copper (Cu)            |                 |                   | 110.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Iron (Fe)              |                 |                   | 108.2  |           | %     |     | 80-120 | 10-FEB-23 |
| Manganese (Mn)         |                 |                   | 106.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Nickel (Ni)            |                 |                   | 110.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Lead (Pb)              |                 |                   | 110.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Selenium (Se)          |                 |                   | 116.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Vanadium (V)           |                 |                   | 107.0  |           | %     |     | 80-120 | 10-FEB-23 |
| Zinc (Zn)              |                 |                   | 110.5  |           | %     |     | 80-120 | 10-FEB-23 |
| <b>WG3779870-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 10-FEB-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 10-FEB-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 10-FEB-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 10-FEB-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 10-FEB-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 10-FEB-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 10-FEB-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 10-FEB-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 10-FEB-23 |



## Quality Control Report

Workorder: L2746381

Report Date: 27-FEB-23

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| Test                        | Matrix          | Reference          | Result | Qualifier | Units      | RPD | Limit  | Analyzed  |
|-----------------------------|-----------------|--------------------|--------|-----------|------------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>      |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5925856</b> |                    |        |           |            |     |        |           |
| <b>WG3779870-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Selenium (Se)               |                 |                    | <1.3   |           | ug         |     | 1.25   | 10-FEB-23 |
| Vanadium (V)                |                 |                    | <5.0   |           | ug         |     | 10     | 10-FEB-23 |
| Zinc (Zn)                   |                 |                    | <4.5   |           | ug         |     | 4.5    | 10-FEB-23 |
| <b>WG3779870-4</b>          | <b>MS</b>       | <b>L2746381-1</b>  |        |           |            |     |        |           |
| Arsenic (As)                |                 |                    | 98.9   |           | %          |     | 75-125 | 10-FEB-23 |
| Cadmium (Cd)                |                 |                    | 103.6  |           | %          |     | 75-125 | 10-FEB-23 |
| Cobalt (Co)                 |                 |                    | 99.8   |           | %          |     | 75-125 | 10-FEB-23 |
| Chromium (Cr)               |                 |                    | 100.5  |           | %          |     | 75-125 | 10-FEB-23 |
| Copper (Cu)                 |                 |                    | N/A    | MS-B      | %          |     | -      | 10-FEB-23 |
| Iron (Fe)                   |                 |                    | N/A    | MS-B      | %          |     | -      | 10-FEB-23 |
| Manganese (Mn)              |                 |                    | 101.5  |           | %          |     | 75-125 | 10-FEB-23 |
| Nickel (Ni)                 |                 |                    | 100.6  |           | %          |     | 75-125 | 10-FEB-23 |
| Lead (Pb)                   |                 |                    | 105.9  |           | %          |     | 75-125 | 10-FEB-23 |
| Selenium (Se)               |                 |                    | 105.5  |           | %          |     | 75-125 | 10-FEB-23 |
| Vanadium (V)                |                 |                    | 98.7   |           | %          |     | 75-125 | 10-FEB-23 |
| Zinc (Zn)                   |                 |                    | 102.2  |           | %          |     | 75-125 | 10-FEB-23 |
| <b>PART-HIVOL-GRAV-BU</b>   |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5926076</b> |                    |        |           |            |     |        |           |
| <b>WG3780001-2</b>          | <b>DUP</b>      | <b>L2746381-1</b>  |        |           |            |     |        |           |
| Total particulate           |                 | 22400              | 23100  |           | ug         | 3.1 | 5      | 13-FEB-23 |
| <b>WG3780001-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total particulate           |                 |                    | <100   |           | ug         |     | 100    | 13-FEB-23 |
| <b>PART-M212 F-GRAV-BU</b>  |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5926057</b> |                    |        |           |            |     |        |           |
| <b>WG3780000-2</b>          | <b>DUP</b>      | <b>L2746381-17</b> |        |           |            |     |        |           |
| Total particulate           |                 | 129                | 126    |           | ug         | 2.4 | 10     | 14-FEB-23 |
| <b>WG3780000-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total particulate           |                 |                    | <15    |           | ug         |     | 15     | 14-FEB-23 |
| <b>DUSTFALLS-ALL-DM2-VA</b> |                 |                    |        |           |            |     |        |           |
|                             | <b>Dustfall</b> |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5929436</b> |                    |        |           |            |     |        |           |
| <b>WG3780301-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total Dustfall              |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-FEB-23 |
| Total Insoluble Dustfall    |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-FEB-23 |
| Total Soluble Dustfall      |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-FEB-23 |
| Fixed Dustfall              |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-FEB-23 |



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| Test                                 | Matrix | Reference   | Result     | Qualifier | Units      | RPD      | Limit     | Analyzed  |
|--------------------------------------|--------|-------------|------------|-----------|------------|----------|-----------|-----------|
| <b>DUSTFALLS-ALL-DM2-VA Dustfall</b> |        |             |            |           |            |          |           |           |
| <b>Batch R5929436</b>                |        |             |            |           |            |          |           |           |
| <b>WG3780301-1 MB</b>                |        |             |            |           |            |          |           |           |
| Fixed Insoluble Dustfall             |        |             | <0.10      |           | mg/dm2.day |          | 0.1       | 21-FEB-23 |
| Fixed Soluble Dustfall               |        |             | <0.10      |           | mg/dm2.day |          | 0.1       | 21-FEB-23 |
| Volatile Dustfall                    |        |             | <0.10      |           | mg/dm2.day |          | 0.1       | 21-FEB-23 |
| Volatile Insoluble Dustfall          |        |             | <0.10      |           | mg/dm2.day |          | 0.1       | 21-FEB-23 |
| Volatile Soluble Dustfall            |        |             | <0.10      |           | mg/dm2.day |          | 0.1       | 21-FEB-23 |
| <b>HG-DUST(DM2-CVAFS-VA Dustfall</b> |        |             |            |           |            |          |           |           |
| <b>Batch R5928281</b>                |        |             |            |           |            |          |           |           |
| <b>WG3780154-3 DUP L2746381-35</b>   |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        | <0.00000096 | <0.0000009 | RPD-NA    | mg/dm2.day | N/A      | 20        | 22-FEB-23 |
| <b>WG3780155-3 DUP L2746381-36</b>   |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        | <0.0000013  | <0.0000013 | RPD-NA    | mg/dm2.day | N/A      | 20        | 22-FEB-23 |
| <b>WG3780154-2 LCS</b>               |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |             | 104.3      |           | %          |          | 70-130    | 22-FEB-23 |
| <b>WG3780155-2 LCS</b>               |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |             | 80.7       |           | %          |          | 70-130    | 22-FEB-23 |
| <b>WG3780154-1 MB</b>                |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |             | <0.0000013 |           | mg/dm2.day |          | 0.0000013 | 22-FEB-23 |
| <b>WG3780155-1 MB</b>                |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |             | <0.0000013 |           | mg/dm2.day |          | 0.0000013 | 22-FEB-23 |
| <b>WG3780154-4 MS L2746381-34</b>    |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |             | 93.0       |           | %          |          | 70-130    | 22-FEB-23 |
| <b>WG3780155-4 MS L2746381-36</b>    |        |             |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |             | 87.0       |           | %          |          | 70-130    | 22-FEB-23 |
| <b>MET-DUST(DM2)-MS-VA Dustfall</b>  |        |             |            |           |            |          |           |           |
| <b>Batch R5928217</b>                |        |             |            |           |            |          |           |           |
| <b>WG3780150-3 DUP L2746381-33</b>   |        |             |            |           |            |          |           |           |
| Aluminum (Al)-Total                  |        | 0.00454     | 0.00398    |           | mg/dm2.day | 13       | 20        | 21-FEB-23 |
| Antimony (Sb)-Total                  |        | <0.0000020  | <0.0000020 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Arsenic (As)-Total                   |        | 0.0000062   | 0.0000101  | J         | mg/dm2.day | 0.000003 | 0.000004  | 21-FEB-23 |
| Barium (Ba)-Total                    |        | 0.0000263   | 0.0000293  |           | mg/dm2.day | 11       | 20        | 21-FEB-23 |
| Beryllium (Be)-Total                 |        | <0.0000099  | <0.0000099 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Bismuth (Bi)-Total                   |        | <0.0000099  | <0.0000099 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Boron (B)-Total                      |        | <0.00020    | <0.00020   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Cadmium (Cd)-Total                   |        | <0.00000099 | 0.00000103 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Calcium (Ca)-Total                   |        | 0.00773     | 0.00795    |           | mg/dm2.day | 2.9      | 20        | 21-FEB-23 |
| Chromium (Cr)-Total                  |        | <0.0000099  | <0.0000099 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |



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| Test                       | Matrix          | Reference          | Result     | Qualifier | Units      | RPD      | Limit     | Analyzed  |
|----------------------------|-----------------|--------------------|------------|-----------|------------|----------|-----------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 |                    |            |           |            |          |           |           |
|                            | <b>Dustfall</b> |                    |            |           |            |          |           |           |
| <b>Batch</b>               | <b>R5928217</b> |                    |            |           |            |          |           |           |
| <b>WG3780150-3</b>         | <b>DUP</b>      | <b>L2746381-33</b> |            |           |            |          |           |           |
| Cobalt (Co)-Total          |                 | <0.0000020         | <0.0000020 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Copper (Cu)-Total          |                 | 0.0000393          | 0.0000359  |           | mg/dm2.day | 9.2      | 20        | 21-FEB-23 |
| Iron (Fe)-Total            |                 | 0.00388            | 0.00423    |           | mg/dm2.day | 8.4      | 20        | 21-FEB-23 |
| Lithium (Li)-Total         |                 | <0.000099          | <0.000099  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Magnesium (Mg)-Total       |                 | 0.00203            | 0.00207    |           | mg/dm2.day | 1.6      | 20        | 21-FEB-23 |
| Manganese (Mn)-Total       |                 | 0.000205           | 0.000209   |           | mg/dm2.day | 2.0      | 20        | 21-FEB-23 |
| Nickel (Ni)-Total          |                 | 0.0000126          | 0.0000157  | J         | mg/dm2.day | 0.000003 | 0.0000198 | 21-FEB-23 |
| Phosphorus (P)-Total       |                 | <0.00099           | <0.00099   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Potassium (K)-Total        |                 | <0.00099           | 0.00108    | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Selenium (Se)-Total        |                 | <0.000020          | <0.000020  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Silicon (Si)-Total         |                 | 0.00595            | 0.00750    | J         | mg/dm2.day | 0.00156  | 0.00198   | 21-FEB-23 |
| Silver (Ag)-Total          |                 | 0.00000027         | 0.00000028 |           | mg/dm2.day | 0.6      | 20        | 21-FEB-23 |
| Sodium (Na)-Total          |                 | 0.00215            | 0.00259    |           | mg/dm2.day | 19       | 20        | 21-FEB-23 |
| Strontium (Sr)-Total       |                 | 0.0000207          | 0.0000228  |           | mg/dm2.day | 9.6      | 20        | 21-FEB-23 |
| Thallium (Tl)-Total        |                 | <0.0000020         | <0.0000020 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Tin (Sn)-Total             |                 | <0.0000020         | <0.0000020 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Titanium (Ti)-Total        |                 | <0.00020           | <0.00020   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Uranium (U)-Total          |                 | <0.00000020        | <0.0000002 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Vanadium (V)-Total         |                 | <0.000020          | <0.000020  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Zinc (Zn)-Total            |                 | 0.000241           | 0.000242   |           | mg/dm2.day | 0.3      | 20        | 21-FEB-23 |
| <b>WG3780152-3</b>         | <b>DUP</b>      | <b>L2746381-36</b> |            |           |            |          |           |           |
| Aluminum (Al)-Total        |                 | <0.000078          | 0.000091   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Antimony (Sb)-Total        |                 | <0.0000026         | <0.0000026 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Arsenic (As)-Total         |                 | <0.0000026         | <0.0000026 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Barium (Ba)-Total          |                 | <0.0000013         | 0.0000013  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Beryllium (Be)-Total       |                 | <0.000013          | <0.000013  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Bismuth (Bi)-Total         |                 | <0.000013          | <0.000013  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Boron (B)-Total            |                 | <0.00026           | <0.00026   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Cadmium (Cd)-Total         |                 | <0.0000013         | <0.0000013 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Calcium (Ca)-Total         |                 | <0.00052           | <0.00052   | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Chromium (Cr)-Total        |                 | <0.000013          | <0.000013  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Cobalt (Co)-Total          |                 | <0.0000026         | <0.0000026 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Copper (Cu)-Total          |                 | <0.000013          | <0.000013  | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |
| Lead (Pb)-Total            |                 | <0.0000013         | <0.0000013 | RPD-NA    | mg/dm2.day | N/A      | 20        | 21-FEB-23 |

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| Test                       | Matrix          | Reference          | Result      | Qualifier | Units      | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|-------------|-----------|------------|-----|--------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 |                    |             |           |            |     |        |           |
|                            | <b>Dustfall</b> |                    |             |           |            |     |        |           |
| <b>Batch</b>               | <b>R5928217</b> |                    |             |           |            |     |        |           |
| <b>WG3780152-3</b>         | <b>DUP</b>      | <b>L2746381-36</b> |             |           |            |     |        |           |
| Iron (Fe)-Total            |                 | <0.00078           | <0.00078    | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Lithium (Li)-Total         |                 | <0.00013           | <0.00013    | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Magnesium (Mg)-Total       |                 | <0.00013           | <0.00013    | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Manganese (Mn)-Total       |                 | <0.0000026         | <0.0000026  | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Molybdenum (Mo)-Total      |                 | <0.0000013         | <0.0000013  | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Nickel (Ni)-Total          |                 | <0.000013          | <0.000013   | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Phosphorus (P)-Total       |                 | <0.0013            | <0.0013     | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Potassium (K)-Total        |                 | <0.0013            | <0.0013     | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Selenium (Se)-Total        |                 | <0.000026          | <0.000026   | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Silicon (Si)-Total         |                 | <0.0013            | <0.0013     | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Silver (Ag)-Total          |                 | <0.00000026        | <0.00000026 | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Sodium (Na)-Total          |                 | <0.0013            | <0.0013     | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Strontium (Sr)-Total       |                 | <0.0000026         | <0.0000026  | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Thallium (Tl)-Total        |                 | <0.0000026         | <0.0000026  | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Tin (Sn)-Total             |                 | <0.0000026         | <0.0000026  | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Titanium (Ti)-Total        |                 | <0.00026           | <0.00026    | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Uranium (U)-Total          |                 | <0.00000026        | <0.00000026 | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Vanadium (V)-Total         |                 | <0.000026          | <0.000026   | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| Zinc (Zn)-Total            |                 | <0.000078          | <0.000078   | RPD-NA    | mg/dm2.day | N/A | 20     | 21-FEB-23 |
| <b>WG3780150-2</b>         | <b>LCS</b>      |                    |             |           |            |     |        |           |
| Aluminum (Al)-Total        |                 |                    | 103.9       |           | %          |     | 80-120 | 21-FEB-23 |
| Antimony (Sb)-Total        |                 |                    | 105.6       |           | %          |     | 80-120 | 21-FEB-23 |
| Arsenic (As)-Total         |                 |                    | 106.8       |           | %          |     | 80-120 | 21-FEB-23 |
| Barium (Ba)-Total          |                 |                    | 96.7        |           | %          |     | 80-120 | 21-FEB-23 |
| Beryllium (Be)-Total       |                 |                    | 104.1       |           | %          |     | 80-120 | 21-FEB-23 |
| Bismuth (Bi)-Total         |                 |                    | 98.6        |           | %          |     | 80-120 | 21-FEB-23 |
| Boron (B)-Total            |                 |                    | 109.6       |           | %          |     | 80-120 | 21-FEB-23 |
| Cadmium (Cd)-Total         |                 |                    | 100.3       |           | %          |     | 80-120 | 21-FEB-23 |
| Calcium (Ca)-Total         |                 |                    | 102.0       |           | %          |     | 80-120 | 21-FEB-23 |
| Chromium (Cr)-Total        |                 |                    | 99.6        |           | %          |     | 80-120 | 21-FEB-23 |
| Cobalt (Co)-Total          |                 |                    | 100.0       |           | %          |     | 80-120 | 21-FEB-23 |
| Copper (Cu)-Total          |                 |                    | 101.2       |           | %          |     | 80-120 | 21-FEB-23 |
| Lead (Pb)-Total            |                 |                    | 100.6       |           | %          |     | 80-120 | 21-FEB-23 |
| Iron (Fe)-Total            |                 |                    | 105.8       |           | %          |     | 80-120 | 21-FEB-23 |

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| Test                       | Matrix          | Reference | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> | <b>Dustfall</b> |           |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5928217</b> |           |        |           |       |     |        |           |
| <b>WG3780150-2</b>         | <b>LCS</b>      |           |        |           |       |     |        |           |
| Lithium (Li)-Total         |                 |           | 101.5  |           | %     |     | 80-120 | 21-FEB-23 |
| Magnesium (Mg)-Total       |                 |           | 99.4   |           | %     |     | 80-120 | 21-FEB-23 |
| Manganese (Mn)-Total       |                 |           | 100.0  |           | %     |     | 80-120 | 21-FEB-23 |
| Molybdenum (Mo)-Total      |                 |           | 106.2  |           | %     |     | 80-120 | 21-FEB-23 |
| Nickel (Ni)-Total          |                 |           | 99.0   |           | %     |     | 80-120 | 21-FEB-23 |
| Phosphorus (P)-Total       |                 |           | 103.0  |           | %     |     | 80-120 | 21-FEB-23 |
| Potassium (K)-Total        |                 |           | 105.4  |           | %     |     | 80-120 | 21-FEB-23 |
| Selenium (Se)-Total        |                 |           | 101.6  |           | %     |     | 80-120 | 21-FEB-23 |
| Silicon (Si)-Total         |                 |           | 104.3  |           | %     |     | 80-120 | 21-FEB-23 |
| Silver (Ag)-Total          |                 |           | 90.3   |           | %     |     | 80-120 | 21-FEB-23 |
| Sodium (Na)-Total          |                 |           | 105.9  |           | %     |     | 80-120 | 21-FEB-23 |
| Strontium (Sr)-Total       |                 |           | 101.7  |           | %     |     | 80-120 | 21-FEB-23 |
| Thallium (Tl)-Total        |                 |           | 100.5  |           | %     |     | 80-120 | 21-FEB-23 |
| Tin (Sn)-Total             |                 |           | 100.1  |           | %     |     | 80-120 | 21-FEB-23 |
| Titanium (Ti)-Total        |                 |           | 98.9   |           | %     |     | 80-120 | 21-FEB-23 |
| Uranium (U)-Total          |                 |           | 101.4  |           | %     |     | 80-120 | 21-FEB-23 |
| Vanadium (V)-Total         |                 |           | 101.5  |           | %     |     | 80-120 | 21-FEB-23 |
| Zinc (Zn)-Total            |                 |           | 99.5   |           | %     |     | 80-120 | 21-FEB-23 |
| <b>WG3780152-2</b>         | <b>LCS</b>      |           |        |           |       |     |        |           |
| Aluminum (Al)-Total        |                 |           | 104.6  |           | %     |     | 80-120 | 21-FEB-23 |
| Antimony (Sb)-Total        |                 |           | 100.8  |           | %     |     | 80-120 | 21-FEB-23 |
| Arsenic (As)-Total         |                 |           | 104.7  |           | %     |     | 80-120 | 21-FEB-23 |
| Barium (Ba)-Total          |                 |           | 98.2   |           | %     |     | 80-120 | 21-FEB-23 |
| Beryllium (Be)-Total       |                 |           | 101.8  |           | %     |     | 80-120 | 21-FEB-23 |
| Bismuth (Bi)-Total         |                 |           | 96.0   |           | %     |     | 80-120 | 21-FEB-23 |
| Boron (B)-Total            |                 |           | 104.7  |           | %     |     | 80-120 | 21-FEB-23 |
| Cadmium (Cd)-Total         |                 |           | 100.3  |           | %     |     | 80-120 | 21-FEB-23 |
| Calcium (Ca)-Total         |                 |           | 99.1   |           | %     |     | 80-120 | 21-FEB-23 |
| Chromium (Cr)-Total        |                 |           | 99.0   |           | %     |     | 80-120 | 21-FEB-23 |
| Cobalt (Co)-Total          |                 |           | 99.5   |           | %     |     | 80-120 | 21-FEB-23 |
| Copper (Cu)-Total          |                 |           | 100.8  |           | %     |     | 80-120 | 21-FEB-23 |
| Lead (Pb)-Total            |                 |           | 100.5  |           | %     |     | 80-120 | 21-FEB-23 |
| Iron (Fe)-Total            |                 |           | 105.1  |           | %     |     | 80-120 | 21-FEB-23 |
| Lithium (Li)-Total         |                 |           | 100.4  |           | %     |     | 80-120 | 21-FEB-23 |



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| Test                       | Matrix          | Reference       | Result     | Qualifier | Units      | RPD | Limit     | Analyzed  |
|----------------------------|-----------------|-----------------|------------|-----------|------------|-----|-----------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 | <b>Dustfall</b> |            |           |            |     |           |           |
| <b>Batch</b>               | <b>R5928217</b> |                 |            |           |            |     |           |           |
| <b>WG3780152-2 LCS</b>     |                 |                 |            |           |            |     |           |           |
| Magnesium (Mg)-Total       |                 |                 | 100.7      |           | %          |     | 80-120    | 21-FEB-23 |
| Manganese (Mn)-Total       |                 |                 | 98.5       |           | %          |     | 80-120    | 21-FEB-23 |
| Molybdenum (Mo)-Total      |                 |                 | 102.6      |           | %          |     | 80-120    | 21-FEB-23 |
| Nickel (Ni)-Total          |                 |                 | 98.2       |           | %          |     | 80-120    | 21-FEB-23 |
| Phosphorus (P)-Total       |                 |                 | 96.9       |           | %          |     | 80-120    | 21-FEB-23 |
| Potassium (K)-Total        |                 |                 | 105.6      |           | %          |     | 80-120    | 21-FEB-23 |
| Selenium (Se)-Total        |                 |                 | 100.1      |           | %          |     | 80-120    | 21-FEB-23 |
| Silicon (Si)-Total         |                 |                 | 104.1      |           | %          |     | 80-120    | 21-FEB-23 |
| Silver (Ag)-Total          |                 |                 | 89.3       |           | %          |     | 80-120    | 21-FEB-23 |
| Sodium (Na)-Total          |                 |                 | 102.4      |           | %          |     | 80-120    | 21-FEB-23 |
| Strontium (Sr)-Total       |                 |                 | 99.9       |           | %          |     | 80-120    | 21-FEB-23 |
| Thallium (Tl)-Total        |                 |                 | 98.3       |           | %          |     | 80-120    | 21-FEB-23 |
| Tin (Sn)-Total             |                 |                 | 96.8       |           | %          |     | 80-120    | 21-FEB-23 |
| Titanium (Ti)-Total        |                 |                 | 96.2       |           | %          |     | 80-120    | 21-FEB-23 |
| Uranium (U)-Total          |                 |                 | 100.8      |           | %          |     | 80-120    | 21-FEB-23 |
| Vanadium (V)-Total         |                 |                 | 102.4      |           | %          |     | 80-120    | 21-FEB-23 |
| Zinc (Zn)-Total            |                 |                 | 97.4       |           | %          |     | 80-120    | 21-FEB-23 |
| <b>WG3780150-1 MB</b>      |                 |                 |            |           |            |     |           |           |
| Aluminum (Al)-Total        |                 |                 | <0.000079  |           | mg/dm2.day |     | 0.000079  | 21-FEB-23 |
| Antimony (Sb)-Total        |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026 | 21-FEB-23 |
| Arsenic (As)-Total         |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026 | 21-FEB-23 |
| Barium (Ba)-Total          |                 |                 | <0.0000013 |           | mg/dm2.day |     | 0.0000013 | 21-FEB-23 |
| Beryllium (Be)-Total       |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013  | 21-FEB-23 |
| Bismuth (Bi)-Total         |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013  | 21-FEB-23 |
| Boron (B)-Total            |                 |                 | <0.00026   |           | mg/dm2.day |     | 0.00026   | 21-FEB-23 |
| Cadmium (Cd)-Total         |                 |                 | <0.0000013 |           | mg/dm2.day |     | 0.0000013 | 21-FEB-23 |
| Calcium (Ca)-Total         |                 |                 | <0.00052   |           | mg/dm2.day |     | 0.00052   | 21-FEB-23 |
| Chromium (Cr)-Total        |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013  | 21-FEB-23 |
| Cobalt (Co)-Total          |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026 | 21-FEB-23 |
| Copper (Cu)-Total          |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013  | 21-FEB-23 |
| Lead (Pb)-Total            |                 |                 | <0.0000013 |           | mg/dm2.day |     | 0.0000013 | 21-FEB-23 |
| Iron (Fe)-Total            |                 |                 | <0.00079   |           | mg/dm2.day |     | 0.00079   | 21-FEB-23 |
| Lithium (Li)-Total         |                 |                 | <0.00013   |           | mg/dm2.day |     | 0.00013   | 21-FEB-23 |
| Magnesium (Mg)-Total       |                 |                 | <0.00013   |           | mg/dm2.day |     | 0.00013   | 21-FEB-23 |

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| Test                       | Matrix          | Reference       | Result     | Qualifier | Units      | RPD | Limit      | Analyzed  |
|----------------------------|-----------------|-----------------|------------|-----------|------------|-----|------------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 | <b>Dustfall</b> |            |           |            |     |            |           |
| <b>Batch</b>               | <b>R5928217</b> |                 |            |           |            |     |            |           |
| <b>WG3780150-1 MB</b>      |                 |                 |            |           |            |     |            |           |
| Manganese (Mn)-Total       |                 |                 | 0.0000038  | B         | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Molybdenum (Mo)-Total      |                 |                 | <0.0000013 |           | mg/dm2.day |     | 0.0000013  | 21-FEB-23 |
| Nickel (Ni)-Total          |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013   | 21-FEB-23 |
| Phosphorus (P)-Total       |                 |                 | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Potassium (K)-Total        |                 |                 | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Selenium (Se)-Total        |                 |                 | <0.000026  |           | mg/dm2.day |     | 0.000026   | 21-FEB-23 |
| Silicon (Si)-Total         |                 |                 | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Silver (Ag)-Total          |                 |                 | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 21-FEB-23 |
| Sodium (Na)-Total          |                 |                 | <0.0013    |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Strontium (Sr)-Total       |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Thallium (Tl)-Total        |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Tin (Sn)-Total             |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Titanium (Ti)-Total        |                 |                 | <0.00026   |           | mg/dm2.day |     | 0.00026    | 21-FEB-23 |
| Uranium (U)-Total          |                 |                 | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 21-FEB-23 |
| Vanadium (V)-Total         |                 |                 | <0.000026  |           | mg/dm2.day |     | 0.000026   | 21-FEB-23 |
| Zinc (Zn)-Total            |                 |                 | <0.000079  |           | mg/dm2.day |     | 0.000079   | 21-FEB-23 |
| <b>WG3780152-1 MB</b>      |                 |                 |            |           |            |     |            |           |
| Aluminum (Al)-Total        |                 |                 | 0.000097   | B         | mg/dm2.day |     | 0.000079   | 21-FEB-23 |
| Antimony (Sb)-Total        |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Arsenic (As)-Total         |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Barium (Ba)-Total          |                 |                 | <0.0000013 |           | mg/dm2.day |     | 0.0000013  | 21-FEB-23 |
| Beryllium (Be)-Total       |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013   | 21-FEB-23 |
| Bismuth (Bi)-Total         |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013   | 21-FEB-23 |
| Boron (B)-Total            |                 |                 | <0.00026   |           | mg/dm2.day |     | 0.00026    | 21-FEB-23 |
| Cadmium (Cd)-Total         |                 |                 | <0.0000013 |           | mg/dm2.day |     | 0.0000013  | 21-FEB-23 |
| Calcium (Ca)-Total         |                 |                 | <0.00052   |           | mg/dm2.day |     | 0.00052    | 21-FEB-23 |
| Chromium (Cr)-Total        |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013   | 21-FEB-23 |
| Cobalt (Co)-Total          |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Copper (Cu)-Total          |                 |                 | <0.000013  |           | mg/dm2.day |     | 0.000013   | 21-FEB-23 |
| Lead (Pb)-Total            |                 |                 | <0.0000013 |           | mg/dm2.day |     | 0.0000013  | 21-FEB-23 |
| Iron (Fe)-Total            |                 |                 | <0.00079   |           | mg/dm2.day |     | 0.00079    | 21-FEB-23 |
| Lithium (Li)-Total         |                 |                 | <0.00013   |           | mg/dm2.day |     | 0.00013    | 21-FEB-23 |
| Magnesium (Mg)-Total       |                 |                 | <0.00013   |           | mg/dm2.day |     | 0.00013    | 21-FEB-23 |
| Manganese (Mn)-Total       |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |



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| Test                       | Matrix          | Reference          | Result      | Qualifier | Units      | RPD | Limit      | Analyzed  |
|----------------------------|-----------------|--------------------|-------------|-----------|------------|-----|------------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 |                    |             |           |            |     |            |           |
|                            | <b>Dustfall</b> |                    |             |           |            |     |            |           |
| <b>Batch</b>               | <b>R5928217</b> |                    |             |           |            |     |            |           |
| <b>WG3780152-1</b>         | <b>MB</b>       |                    |             |           |            |     |            |           |
| Molybdenum (Mo)-Total      |                 |                    | <0.0000013  |           | mg/dm2.day |     | 0.0000013  | 21-FEB-23 |
| Nickel (Ni)-Total          |                 |                    | <0.000013   |           | mg/dm2.day |     | 0.000013   | 21-FEB-23 |
| Phosphorus (P)-Total       |                 |                    | <0.0013     |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Potassium (K)-Total        |                 |                    | <0.0013     |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Selenium (Se)-Total        |                 |                    | <0.000026   |           | mg/dm2.day |     | 0.000026   | 21-FEB-23 |
| Silicon (Si)-Total         |                 |                    | <0.0013     |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Silver (Ag)-Total          |                 |                    | <0.0000002  |           | mg/dm2.day |     | 0.00000026 | 21-FEB-23 |
| Sodium (Na)-Total          |                 |                    | <0.0013     |           | mg/dm2.day |     | 0.0013     | 21-FEB-23 |
| Strontium (Sr)-Total       |                 |                    | <0.0000026  |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Thallium (Tl)-Total        |                 |                    | <0.0000026  |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Tin (Sn)-Total             |                 |                    | <0.0000026  |           | mg/dm2.day |     | 0.0000026  | 21-FEB-23 |
| Titanium (Ti)-Total        |                 |                    | <0.00026    |           | mg/dm2.day |     | 0.00026    | 21-FEB-23 |
| Uranium (U)-Total          |                 |                    | <0.0000002  |           | mg/dm2.day |     | 0.00000026 | 21-FEB-23 |
| Vanadium (V)-Total         |                 |                    | <0.000026   |           | mg/dm2.day |     | 0.000026   | 21-FEB-23 |
| Zinc (Zn)-Total            |                 |                    | <0.000079   |           | mg/dm2.day |     | 0.000079   | 21-FEB-23 |
| <b>Batch</b>               | <b>R5930076</b> |                    |             |           |            |     |            |           |
| <b>WG3780461-3</b>         | <b>DUP</b>      | <b>L2746381-33</b> |             |           |            |     |            |           |
| Aluminum (Al)-Total        |                 | 0.00454            | 0.00227     |           | mg/dm2.day | 2.7 | 20         | 24-FEB-23 |
| Antimony (Sb)-Total        |                 | <0.0000020         | <0.0000020  | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Barium (Ba)-Total          |                 | 0.0000263          | 0.0000153   |           | mg/dm2.day | 15  | 20         | 24-FEB-23 |
| Beryllium (Be)-Total       |                 | <0.0000099         | <0.0000099  | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Bismuth (Bi)-Total         |                 | <0.0000099         | <0.0000099  | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Boron (B)-Total            |                 | <0.00020           | <0.00020    | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Cadmium (Cd)-Total         |                 | <0.00000099        | <0.00000099 | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Calcium (Ca)-Total         |                 | 0.00773            | 0.00440     |           | mg/dm2.day | 18  | 20         | 24-FEB-23 |
| Chromium (Cr)-Total        |                 | <0.0000099         | <0.0000099  | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Cobalt (Co)-Total          |                 | <0.0000020         | <0.0000020  | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Copper (Cu)-Total          |                 | 0.0000393          | 0.0000215   |           | mg/dm2.day | 20  | 20         | 24-FEB-23 |
| Lead (Pb)-Total            |                 | 0.00000819         | 0.00000952  |           | mg/dm2.day | 15  | 20         | 24-FEB-23 |
| Iron (Fe)-Total            |                 | 0.00388            | 0.00238     |           | mg/dm2.day | 16  | 20         | 24-FEB-23 |
| Lithium (Li)-Total         |                 | <0.000099          | <0.000099   | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |
| Magnesium (Mg)-Total       |                 | 0.00203            | 0.00125     |           | mg/dm2.day | 17  | 20         | 24-FEB-23 |
| Manganese (Mn)-Total       |                 | 0.000205           | 0.000119    |           | mg/dm2.day | 16  | 20         | 24-FEB-23 |
| Molybdenum (Mo)-Total      |                 | <0.00000099        | <0.00000099 | RPD-NA    | mg/dm2.day | N/A | 20         | 24-FEB-23 |

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| Test                       | Matrix          | Reference          | Result     | Qualifier | Units      | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|------------|-----------|------------|-----|--------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 |                    |            |           |            |     |        |           |
|                            | <b>Dustfall</b> |                    |            |           |            |     |        |           |
| <b>Batch</b>               | <b>R5930076</b> |                    |            |           |            |     |        |           |
| <b>WG3780461-3</b>         | <b>DUP</b>      | <b>L2746381-33</b> |            |           |            |     |        |           |
| Nickel (Ni)-Total          |                 | 0.0000126          | <0.0000099 | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Phosphorus (P)-Total       |                 | <0.00099           | <0.00099   | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Potassium (K)-Total        |                 | <0.00099           | <0.00099   | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Selenium (Se)-Total        |                 | <0.000020          | <0.000020  | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Silicon (Si)-Total         |                 | 0.00595            | 0.00287    |           | mg/dm2.day | 7.6 | 20     | 24-FEB-23 |
| Sodium (Na)-Total          |                 | 0.00215            | 0.00146    |           | mg/dm2.day | 17  | 20     | 24-FEB-23 |
| Strontium (Sr)-Total       |                 | 0.0000207          | 0.0000127  |           | mg/dm2.day | 14  | 20     | 24-FEB-23 |
| Thallium (Tl)-Total        |                 | <0.0000020         | <0.0000020 | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Tin (Sn)-Total             |                 | <0.0000020         | <0.0000020 | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Titanium (Ti)-Total        |                 | <0.00020           | <0.00020   | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Uranium (U)-Total          |                 | <0.00000020        | <0.0000002 | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| Vanadium (V)-Total         |                 | <0.000020          | <0.000020  | RPD-NA    | mg/dm2.day | N/A | 20     | 24-FEB-23 |
| <b>WG3780461-2</b>         |                 |                    |            |           |            |     |        |           |
|                            | <b>LCS</b>      |                    |            |           |            |     |        |           |
| Aluminum (Al)-Total        |                 |                    | 98.2       |           | %          |     | 80-120 | 24-FEB-23 |
| Antimony (Sb)-Total        |                 |                    | 98.7       |           | %          |     | 80-120 | 24-FEB-23 |
| Arsenic (As)-Total         |                 |                    | 100.6      |           | %          |     | 80-120 | 24-FEB-23 |
| Barium (Ba)-Total          |                 |                    | 95.7       |           | %          |     | 80-120 | 24-FEB-23 |
| Beryllium (Be)-Total       |                 |                    | 95.4       |           | %          |     | 80-120 | 24-FEB-23 |
| Bismuth (Bi)-Total         |                 |                    | 97.5       |           | %          |     | 80-120 | 24-FEB-23 |
| Boron (B)-Total            |                 |                    | 91.6       |           | %          |     | 80-120 | 24-FEB-23 |
| Cadmium (Cd)-Total         |                 |                    | 96.6       |           | %          |     | 80-120 | 24-FEB-23 |
| Calcium (Ca)-Total         |                 |                    | 93.4       |           | %          |     | 80-120 | 24-FEB-23 |
| Chromium (Cr)-Total        |                 |                    | 98.8       |           | %          |     | 80-120 | 24-FEB-23 |
| Cobalt (Co)-Total          |                 |                    | 97.4       |           | %          |     | 80-120 | 24-FEB-23 |
| Copper (Cu)-Total          |                 |                    | 97.0       |           | %          |     | 80-120 | 24-FEB-23 |
| Lead (Pb)-Total            |                 |                    | 99.3       |           | %          |     | 80-120 | 24-FEB-23 |
| Iron (Fe)-Total            |                 |                    | 98.9       |           | %          |     | 80-120 | 24-FEB-23 |
| Lithium (Li)-Total         |                 |                    | 93.9       |           | %          |     | 80-120 | 24-FEB-23 |
| Magnesium (Mg)-Total       |                 |                    | 98.1       |           | %          |     | 80-120 | 24-FEB-23 |
| Manganese (Mn)-Total       |                 |                    | 96.4       |           | %          |     | 80-120 | 24-FEB-23 |
| Molybdenum (Mo)-Total      |                 |                    | 98.0       |           | %          |     | 80-120 | 24-FEB-23 |
| Nickel (Ni)-Total          |                 |                    | 97.1       |           | %          |     | 80-120 | 24-FEB-23 |
| Phosphorus (P)-Total       |                 |                    | 103.3      |           | %          |     | 80-120 | 24-FEB-23 |
| Potassium (K)-Total        |                 |                    | 98.9       |           | %          |     | 80-120 | 24-FEB-23 |



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| Test                       | Matrix          | Reference | Result    | Qualifier | Units      | RPD | Limit    | Analyzed  |
|----------------------------|-----------------|-----------|-----------|-----------|------------|-----|----------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 |           |           |           |            |     |          |           |
|                            | <b>Dustfall</b> |           |           |           |            |     |          |           |
| <b>Batch</b>               | <b>R5930076</b> |           |           |           |            |     |          |           |
| <b>WG3780461-2</b>         | <b>LCS</b>      |           |           |           |            |     |          |           |
| Selenium (Se)-Total        |                 |           | 99.0      |           | %          |     | 80-120   | 24-FEB-23 |
| Silicon (Si)-Total         |                 |           | 99.1      |           | %          |     | 80-120   | 24-FEB-23 |
| Silver (Ag)-Total          |                 |           | 87.6      |           | %          |     | 80-120   | 24-FEB-23 |
| Sodium (Na)-Total          |                 |           | 99.6      |           | %          |     | 80-120   | 24-FEB-23 |
| Strontium (Sr)-Total       |                 |           | 99.9      |           | %          |     | 80-120   | 24-FEB-23 |
| Thallium (Tl)-Total        |                 |           | 99.2      |           | %          |     | 80-120   | 24-FEB-23 |
| Tin (Sn)-Total             |                 |           | 92.8      |           | %          |     | 80-120   | 24-FEB-23 |
| Titanium (Ti)-Total        |                 |           | 93.2      |           | %          |     | 80-120   | 24-FEB-23 |
| Uranium (U)-Total          |                 |           | 101.3     |           | %          |     | 80-120   | 24-FEB-23 |
| Vanadium (V)-Total         |                 |           | 98.4      |           | %          |     | 80-120   | 24-FEB-23 |
| Zinc (Zn)-Total            |                 |           | 95.5      |           | %          |     | 80-120   | 24-FEB-23 |
| <b>WG3780461-1</b>         | <b>MB</b>       |           |           |           |            |     |          |           |
| Antimony (Sb)-Total        |                 |           | <0.000026 |           | mg/dm2.day |     | 0.000026 | 24-FEB-23 |
| Arsenic (As)-Total         |                 |           | <0.000026 |           | mg/dm2.day |     | 0.000026 | 24-FEB-23 |
| Barium (Ba)-Total          |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Beryllium (Be)-Total       |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Bismuth (Bi)-Total         |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Boron (B)-Total            |                 |           | <0.00026  |           | mg/dm2.day |     | 0.00026  | 24-FEB-23 |
| Cadmium (Cd)-Total         |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Calcium (Ca)-Total         |                 |           | <0.00052  |           | mg/dm2.day |     | 0.00052  | 24-FEB-23 |
| Chromium (Cr)-Total        |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Cobalt (Co)-Total          |                 |           | <0.000026 |           | mg/dm2.day |     | 0.000026 | 24-FEB-23 |
| Copper (Cu)-Total          |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Lead (Pb)-Total            |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Iron (Fe)-Total            |                 |           | <0.00079  |           | mg/dm2.day |     | 0.00079  | 24-FEB-23 |
| Lithium (Li)-Total         |                 |           | <0.00013  |           | mg/dm2.day |     | 0.00013  | 24-FEB-23 |
| Magnesium (Mg)-Total       |                 |           | <0.00013  |           | mg/dm2.day |     | 0.00013  | 24-FEB-23 |
| Manganese (Mn)-Total       |                 |           | <0.000026 |           | mg/dm2.day |     | 0.000026 | 24-FEB-23 |
| Molybdenum (Mo)-Total      |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Nickel (Ni)-Total          |                 |           | <0.000013 |           | mg/dm2.day |     | 0.000013 | 24-FEB-23 |
| Phosphorus (P)-Total       |                 |           | <0.0013   |           | mg/dm2.day |     | 0.0013   | 24-FEB-23 |
| Potassium (K)-Total        |                 |           | <0.0013   |           | mg/dm2.day |     | 0.0013   | 24-FEB-23 |
| Selenium (Se)-Total        |                 |           | <0.000026 |           | mg/dm2.day |     | 0.000026 | 24-FEB-23 |
| Silicon (Si)-Total         |                 |           | <0.0013   |           | mg/dm2.day |     | 0.0013   | 24-FEB-23 |





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| Test                       | Matrix          | Reference       | Result     | Qualifier | Units      | RPD | Limit      | Analyzed  |
|----------------------------|-----------------|-----------------|------------|-----------|------------|-----|------------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 | <b>Dustfall</b> |            |           |            |     |            |           |
| <b>Batch</b>               | <b>R5930076</b> |                 |            |           |            |     |            |           |
| <b>WG3780461-1</b>         | <b>MB</b>       |                 |            |           |            |     |            |           |
| Silver (Ag)-Total          |                 |                 | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 24-FEB-23 |
| Sodium (Na)-Total          |                 |                 | <0.0013    |           | mg/dm2.day |     | 0.0013     | 24-FEB-23 |
| Strontium (Sr)-Total       |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 24-FEB-23 |
| Thallium (Tl)-Total        |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 24-FEB-23 |
| Tin (Sn)-Total             |                 |                 | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 24-FEB-23 |
| Titanium (Ti)-Total        |                 |                 | <0.00026   |           | mg/dm2.day |     | 0.00026    | 24-FEB-23 |
| Uranium (U)-Total          |                 |                 | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 24-FEB-23 |
| Vanadium (V)-Total         |                 |                 | <0.000026  |           | mg/dm2.day |     | 0.000026   | 24-FEB-23 |
| Zinc (Zn)-Total            |                 |                 | <0.000079  |           | mg/dm2.day |     | 0.000079   | 24-FEB-23 |

# Quality Control Report

Workorder: L2746381

Report Date: 27-FEB-23

Page 13 of 13

## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description  |
|-----------|--|
| B         | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity.  |
| J         | Duplicate results and limits are expressed in terms of absolute difference.  |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.                                       |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.  |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody / Analytical Request Form  
 1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
 Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com



L2746381-COFC

| Report To   |   | Report Format / Distribution     |                 |               | Service Requested  |              |                         |                        |                      |                              |
|---|---|----------------------------------|-----------------|---------------|--|--------------|-------------------------|------------------------|----------------------|------------------------------|
| Company: New Gold Inc.  |   |                                  |                 |               | Regular Service  |              |                         |                        |                      |                              |
| Contact: Robyn Lloyd  |   |                                  |                 |               | Rush Service (with prior consultation) - surcharge applies |              |                         |                        |                      |                              |
| Address: 1361 Roen Road, Chapple ON P0W 1A0   |   | Email 1: robyn.lloyd@newgold.com |                 |               | Other - Please contact ALS                                 |              |                         |                        |                      |                              |
| Phone: 705-930-7112 Fax:  |   | Email 2:                         |                 |               | Analysis Request   |              |                         |                        |                      |                              |
| Invoice To: Same as Report  |   | Client / Project Information     |                 |               |  |              |                         |                        |                      |                              |
| Company:  |   | Job #: Air Quality               |                 |               |  |              |                         |                        |                      |                              |
| Contact:  |   | Location:                        |                 |               |  |              |                         |                        |                      |                              |
| Address:  |   | PO: 4500059107                   |                 |               |  |              |                         |                        |                      |                              |
| Phone: Fax:   |   | Sampled by:                      |                 |               |  |              |                         |                        |                      |                              |
| Lab Work Order #  |   | ALS Contact:                     |                 |               |  |              |                         |                        |                      |                              |
| Sample #  | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)               | Time<br>(hh:mm) | Sample Type   | TSP and Metals   | PM 2.5       | Dustfall Incl. volatile | Hazardous? Provide Det | Highly Contaminated? | Number of Containers         |
|   | NORTH-TSP-462   | 31-Dec-2022                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | SOUTH-TSP-462   | 31-Dec-2022                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTHWEST-TSP-462   | 31-Dec-2022                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTH-TSP-463   | 6-Jan-2023                       | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | SOUTH-TSP-463   | 6-Jan-2023                       | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTHWEST-TSP-463   | 6-Jan-2023                       | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTH-TSP-464   | 12-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | SOUTH-TSP-464   | 12-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTHWEST-TSP-464   | 12-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTH-TSP-465   | 18-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | SOUTH-TSP-465   | 18-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTHWEST-TSP-465   | 18-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTH-TSP-466   | 24-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | SOUTH-TSP-466   | 24-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTHWEST-TSP-466   | 24-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | TRIP BLANK - January TSP  | 31-Jan-2023                      | 12:00           | Air           | X  |              |                         |                        |                      |                              |
|   | NORTH-PM2.5-462   | 31-Dec-2022                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | SOUTH-PM2.5-462   | 31-Dec-2022                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTHWEST-PM2.5-462   | 31-Dec-2022                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTH-PM2.5-463   | 6-Jan-2023                       | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | SOUTH-PM2.5-463   | 6-Jan-2023                       | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTHWEST-PM2.5-463   | 6-Jan-2023                       | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTH-PM2.5-464   | 12-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | SOUTH-PM2.5-464   | 12-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTHWEST-PM2.5-464   | 12-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTH-PM2.5-465   | 18-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | SOUTH-PM2.5-465   | 18-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTHWEST-PM2.5-465   | 18-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTH-PM2.5-466   | 24-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | SOUTH-PM2.5-466   | 24-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | NORTHWEST-PM2.5-466   | 24-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | TRIP BLANK - January PM2.5  | 31-Jan-2023                      | 12:00           | Air           |  | X            |                         |                        |                      |                              |
|   | Dustfall - Gallinger Road   | 28-Jan-2023                      | 12:00           | Air           |  |              | X                       |                        |                      |                              |
|   | Dustfall - Taft Road (South)  | 28-Jan-2023                      | 12:00           | Air           |  |              | X                       |                        |                      |                              |
|   | Dustfall - Northwest  | 28-Jan-2023                      | 12:00           | Air           |  |              | X                       |                        |                      |                              |
|   | TRIP BLANK - January Dustfall   | 31-Jan-2023                      | 12:00           | Air           |  |              | X                       |                        |                      |                              |
| Special Instructions / Regulations / Hazardous Details  |   |                                  |                 |               |  |              |                         |                        |                      |                              |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |   |                                  |                 |               |  |              |                         |                        |                      |                              |
| Released by:  | Date (dd-mm-yy):  | Time (hh:mm):                    | Received by:    | Date:         | Time:  | Temperature: | Verified by:            | Date:                  | Time:                | Observations:                |
|   |   |                                  | AAA<br>BURTON   | 6-FEB<br>2023 | 9:15   | 19.4<br>°C   |                         |                        |                      | Yes / No ?<br>If Yes add SIF |



New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 05-APR-23  
Report Date: 28-APR-23 11:13 (MT)  
Version: FINAL

Client Phone: 807-234-8200

## Certificate of Analysis

Lab Work Order #: L2749891  
Project P.O. #: 4500059107  
Job Reference:  
C of C Numbers:  
Legal Site Desc:

Michael Challis  
Project Manager

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ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567  
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2749891-1 NORTH-TSP-476<br>Sampled By: Client on 25-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 30700  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 192    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 1050   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 33.7   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 23.6   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-2 SOUTH-TSP-476<br>Sampled By: Client on 25-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 63400  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 323    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 2480   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 68.9   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | 3.7    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | 6.1    |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 30.9   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-3 NORTHWEST-TSP-476<br>Sampled By: Client on 25-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 10100  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 80.6   |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 292    |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 8.8    |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 11.9   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2749891-4 NORTH-TSP-475<br>Sampled By: Client on 19-MAR-23<br>Matrix: Hi Vol Filter     |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 48500  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 115    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 1130   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 38.5   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | 3.1    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | 4.4    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 37.4   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-5 SOUTH-TSP-475<br>Sampled By: Client on 19-MAR-23<br>Matrix: Hi Vol Filter     |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 46700  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 189    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 1130   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 43.2   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | 6.7    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 57.2   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-6 NORTHWEST-TSP-475<br>Sampled By: Client on 19-MAR-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 25700  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 175    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 482    |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 15.2   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 21.8   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2749891-7 NORTH-TSP-474<br>Sampled By: Client on 13-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 30000  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 177    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 594    |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 15.1   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 12.2   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-8 SOUTH-TSP-474<br>Sampled By: Client on 13-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 37300  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 265    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 869    |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 32.0   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | 3.4    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 34.6   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-9 NORTHWEST-TSP-474<br>Sampled By: Client on 13-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 40800  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | 8.7    |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | 316    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 2100   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 55.8   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | 4.9    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | 28.4   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2749891-10 NORTH-TSP-473<br>Sampled By: Client on 07-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 45200  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)   | 240    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)   | 860    |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)  | 26.6   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)   | 17.1   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-11 SOUTH-TSP-473<br>Sampled By: Client on 07-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 260000 |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | 3.3    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)   | 14.2   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)   | 183    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)   | 3710   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)  | 142    |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)   | 11.3   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)   | 12.4   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)  | 5.7    |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)   | 82.8   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-12 NORTHWEST-TSP-473<br>Sampled By: Client on 07-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 36000  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)   | 124    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)   | 1190   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)  | 22.8   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)   | 15.8   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2749891-13 NORTH-TSP-472<br>Sampled By: Client on 01-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 130000 |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)   | 13.6   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)   | 206    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)   | 3130   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)  | 83.7   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)   | 7.9    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)   | 4.1    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)   | 38.5   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-14 SOUTH-TSP-472<br>Sampled By: Client on 01-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 294000 |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | 5.2    |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)   | 2.4    |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)   | 20.9   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)   | 308    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)   | 5580   |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)  | 237    |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)   | 21.4   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)   | 26.8   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)  | 8.2    |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)   | 211    |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-15 NORTHWEST-TSP-472<br>Sampled By: Client on 01-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 33200  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)   | 371    |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)   | 842    |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)  | 22.3   |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)   | 23.5   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2749891-16 TRIP BLANK - MARCH TSP<br>Sampled By: Client on 31-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 05-APR-23 | R5946236 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Copper (Cu)  | <4.0   |            | 4.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Iron (Fe)  | 53     |            | 20   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Manganese (Mn)   | 1.4    |            | 1.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| Zinc (Zn)  | <5.0   |            | 5.0  | ug    | 24-APR-23 | 25-APR-23 | R5946696 |
| L2749891-17 NORTH-PM2.5-476<br>Sampled By: Client on 25-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 111    |            | 15   | ug    |           | 05-APR-23 | R5946880 |
| L2749891-18 SOUTH-PM2.5-476<br>Sampled By: Client on 25-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 129    |            | 15   | ug    |           | 05-APR-23 | R5946880 |
| L2749891-19 NORTH-PM2.5-475<br>Sampled By: Client on 19-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 79     |            | 15   | ug    |           | 05-APR-23 | R5946880 |
| L2749891-20 SOUTH-PM2.5-475<br>Sampled By: Client on 19-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 90     |            | 15   | ug    |           | 05-APR-23 | R5946880 |
| L2749891-21 NORTH-PM2.5-474<br>Sampled By: Client on 13-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 36     |            | 15   | ug    |           | 05-APR-23 | R5946880 |
| L2749891-22 SOUTH-PM2.5-474<br>Sampled By: Client on 13-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 60     |            | 15   | ug    |           | 05-APR-23 | R5946880 |
| L2749891-23 NORTH-PM2.5-473<br>Sampled By: Client on 07-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                               |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result  | Qualifier* | D.L.   | Units  | Extracted | Analyzed  | Batch  |
|--|---|------------|--|--|-----------|---|--|
| L2749891-23 NORTH-PM2.5-473<br>Sampled By: Client on 07-MAR-23<br>Matrix: 47mm Filter<br>Total particulate   | 50  |            | 15   | ug   |           | 05-APR-23   | R5946880   |
| L2749891-24 SOUTH-PM2.5-473<br>Sampled By: Client on 07-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 136   |            | 15   | ug   |           | 05-APR-23   | R5946880   |
| L2749891-25 NORTH-PM2.5-472<br>Sampled By: Client on 01-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 55  |            | 15   | ug   |           | 05-APR-23   | R5946880   |
| L2749891-26 SOUTH-PM2.5-472<br>Sampled By: Client on 01-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 102   |            | 15   | ug   |           | 05-APR-23   | R5946880   |
| L2749891-27 TRIP BLANK - PM 2.5<br>Sampled By: Client on 31-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 15  |            | 15   | ug   |           | 05-APR-23   | R5946880   |
| L2749891-28 DUSTFALL - GALLINGER ROAD<br>Sampled By: Client on 30-MAR-23<br>Matrix: Dustfall<br><br><b>Dustfalls-Total, Soluble, Insoluble +FV</b><br>Total Dustfall<br>Total Insoluble Dustfall<br>Total Soluble Dustfall<br>Fixed Dustfall<br>Fixed Insoluble Dustfall<br>Fixed Soluble Dustfall<br>Volatile Dustfall<br>Volatile Insoluble Dustfall<br>Volatile Soluble Dustfall<br>Interval<br>Mercury (Hg)-Total<br><b>Total Metals in Dustfalls by ICPMS</b><br>Aluminum (Al)-Total<br>Interval<br>Antimony (Sb)-Total<br>Arsenic (As)-Total<br>Barium (Ba)-Total<br>Beryllium (Be)-Total<br>Bismuth (Bi)-Total<br>Boron (B)-Total<br>Cadmium (Cd)-Total<br>Calcium (Ca)-Total<br>Chromium (Cr)-Total<br>Cobalt (Co)-Total | 0.74<br>0.60<br>0.14<br>0.71<br>0.60<br><0.11<br><0.11<br><0.11<br><0.11<br>1<br><0.000012<br>0.00494<br>1<br><0.000024<br>0.000044<br>0.0000405<br><0.000012<br><0.000012<br><0.00024<br><0.000012<br>0.0226<br>0.000014<br>0.000025 |            | 0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>0.11<br>1<br>0.000012<br>0.000073<br>1<br>0.000024<br>0.000024<br>0.000012<br>0.000012<br>0.00024<br>0.000012<br>0.00049<br>0.000012<br>0.000024 | mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>days<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day<br>mg/dm2.day |           | 21-APR-23<br>21-APR-23<br>21-APR-23<br>21-APR-23<br>21-APR-23<br>21-APR-23<br>21-APR-23<br>21-APR-23<br>20-APR-23<br>22-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23<br>24-APR-23 | R5946117<br>R5946117<br>R5946117<br>R5946117<br>R5946117<br>R5946117<br>R5946117<br>R5946117<br>R5945157<br>R5945716<br>R5946136<br>R5946096<br>R5946136<br>R5946136<br>R5946136<br>R5946136<br>R5946136<br>R5946136<br>R5946136<br>R5946136<br>R5946136<br>R5946136<br>R5946136 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result      | Qualifier* | D.L.      | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|-----------|------------|-----------|-----------|----------|
| L2749891-28 DUSTFALL - GALLINGER ROAD          |             |            |           |            |           |           |          |
| Sampled By: Client on 30-MAR-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |           |            |           |           |          |
| Copper (Cu)-Total                              | 0.000047    |            | 0.000012  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lead (Pb)-Total                                | 0.0000206   |            | 0.0000012 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Iron (Fe)-Total                                | 0.00537     |            | 0.00073   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lithium (Li)-Total                             | <0.00012    |            | 0.00012   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Magnesium (Mg)-Total                           | 0.00458     |            | 0.00012   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Manganese (Mn)-Total                           | 0.000452    |            | 0.0000024 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Molybdenum (Mo)-Total                          | <0.0000037  | DLB        | 0.0000037 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Nickel (Ni)-Total                              | 0.000036    |            | 0.000012  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Phosphorus (P)-Total                           | <0.0012     |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Potassium (K)-Total                            | 0.0014      |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Selenium (Se)-Total                            | <0.000024   |            | 0.000024  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silicon (Si)-Total                             | 0.0068      |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silver (Ag)-Total                              | 0.00000083  |            | 0.0000002 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Sodium (Na)-Total                              | 0.0022      |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Strontium (Sr)-Total                           | 0.0000507   |            | 0.0000024 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Thallium (Tl)-Total                            | <0.0000024  |            | 0.0000024 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Tin (Sn)-Total                                 | <0.0000024  |            | 0.0000024 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Titanium (Ti)-Total                            | <0.00024    |            | 0.00024   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Uranium (U)-Total                              | <0.00000024 |            | 0.0000002 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Vanadium (V)-Total                             | <0.000024   |            | 0.000024  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Zinc (Zn)-Total                                | 0.000127    |            | 0.000073  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| L2749891-29 DUSTFALL - TAIT ROAD (SOUTH)       |             |            |           |            |           |           |          |
| Sampled By: Client on 30-MAR-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |           |            |           |           |          |
| Total Dustfall                                 | 0.63        |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Total Insoluble Dustfall                       | 0.59        |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Total Soluble Dustfall                         | <0.11       |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Dustfall                                 | 0.63        |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Insoluble Dustfall                       | 0.58        |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Soluble Dustfall                         | <0.11       |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Dustfall                              | <0.11       |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Insoluble Dustfall                    | <0.11       |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Soluble Dustfall                      | <0.11       |            | 0.11      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Interval                                       |             |            | 1         | days       |           | 20-APR-23 | R5945157 |
| Mercury (Hg)-Total                             | <0.0000014  |            | 0.0000014 | mg/dm2.day | 20-APR-23 | 22-APR-23 | R5945716 |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |           |            |           |           |          |
| Aluminum (Al)-Total                            | 0.00219     |            | 0.000085  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Interval                                       |             |            | 1         | days       |           | 24-APR-23 | R5946096 |
| Antimony (Sb)-Total                            | <0.0000028  |            | 0.0000028 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Arsenic (As)-Total                             | 0.0000037   |            | 0.0000028 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Barium (Ba)-Total                              | 0.0000199   |            | 0.0000014 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Beryllium (Be)-Total                           | <0.000014   |            | 0.000014  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Bismuth (Bi)-Total                             | <0.000014   |            | 0.000014  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Boron (B)-Total                                | <0.00028    |            | 0.00028   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Cadmium (Cd)-Total                             | <0.0000014  |            | 0.0000014 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Calcium (Ca)-Total                             | 0.0192      |            | 0.00057   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Chromium (Cr)-Total                            | <0.000014   |            | 0.000014  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Cobalt (Co)-Total                              | <0.0000028  |            | 0.0000028 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result      | Qualifier* | D.L.       | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|------------|------------|-----------|-----------|----------|
| L2749891-29 DUSTFALL - TAIT ROAD (SOUTH)       |             |            |            |            |           |           |          |
| Sampled By: Client on 30-MAR-23                |             |            |            |            |           |           |          |
| Matrix: Dustfall                               |             |            |            |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |            |            |           |           |          |
| Copper (Cu)-Total                              | 0.000022    |            | 0.000014   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lead (Pb)-Total                                | 0.0000166   |            | 0.0000014  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Iron (Fe)-Total                                | 0.00236     |            | 0.00085    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lithium (Li)-Total                             | <0.00014    |            | 0.00014    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Magnesium (Mg)-Total                           | 0.00296     |            | 0.00014    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Manganese (Mn)-Total                           | 0.000407    |            | 0.0000028  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Molybdenum (Mo)-Total                          | <0.0000014  |            | 0.0000014  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Nickel (Ni)-Total                              | 0.000017    |            | 0.000014   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Phosphorus (P)-Total                           | <0.0014     |            | 0.0014     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Potassium (K)-Total                            | <0.0014     |            | 0.0014     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Selenium (Se)-Total                            | <0.000028   |            | 0.000028   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silicon (Si)-Total                             | 0.0032      |            | 0.0014     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silver (Ag)-Total                              | <0.00000028 |            | 0.00000028 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Sodium (Na)-Total                              | 0.0016      |            | 0.0014     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Strontium (Sr)-Total                           | 0.0000377   |            | 0.0000028  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Thallium (Tl)-Total                            | <0.0000028  |            | 0.0000028  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Tin (Sn)-Total                                 | <0.0000028  |            | 0.0000028  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Titanium (Ti)-Total                            | <0.00028    |            | 0.00028    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Uranium (U)-Total                              | <0.00000028 |            | 0.00000028 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Vanadium (V)-Total                             | <0.000028   |            | 0.000028   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Zinc (Zn)-Total                                | 0.000106    |            | 0.000085   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| L2749891-30 DUSTFALL- NORTHWEST                |             |            |            |            |           |           |          |
| Sampled By: Client on 30-MAR-23                |             |            |            |            |           |           |          |
| Matrix: Dustfall                               |             |            |            |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |            |            |           |           |          |
| Total Dustfall                                 | 0.18        |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Total Insoluble Dustfall                       | 0.14        |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Total Soluble Dustfall                         | <0.11       |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Dustfall                                 | 0.25        |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Insoluble Dustfall                       | 0.19        |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Soluble Dustfall                         | <0.11       |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Dustfall                              | <0.11       |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Insoluble Dustfall                    | <0.11       |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Soluble Dustfall                      | <0.11       |            | 0.11       | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Interval                                       |             |            | 1          | days       |           | 20-APR-23 | R5945157 |
| Mercury (Hg)-Total                             | <0.0000012  |            | 0.0000012  | mg/dm2.day | 20-APR-23 | 22-APR-23 | R5945716 |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |            |            |           |           |          |
| Aluminum (Al)-Total                            | 0.000635    |            | 0.000070   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Interval                                       |             |            | 1          | days       |           | 24-APR-23 | R5946096 |
| Antimony (Sb)-Total                            | 0.0000024   |            | 0.0000023  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Arsenic (As)-Total                             | <0.0000023  |            | 0.0000023  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Barium (Ba)-Total                              | 0.0000126   |            | 0.0000012  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Beryllium (Be)-Total                           | <0.000012   |            | 0.000012   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Bismuth (Bi)-Total                             | <0.000012   |            | 0.000012   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Boron (B)-Total                                | <0.00023    |            | 0.00023    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Cadmium (Cd)-Total                             | <0.0000012  |            | 0.0000012  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Calcium (Ca)-Total                             | 0.00753     |            | 0.00046    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Chromium (Cr)-Total                            | <0.000012   |            | 0.000012   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Cobalt (Co)-Total                              | <0.0000023  |            | 0.0000023  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                      | Result      | Qualifier* | D.L.      | Units      | Extracted | Analyzed  | Batch    |
|--|-------------|------------|-----------|------------|-----------|-----------|----------|
| L2749891-30 DUSTFALL- NORTHWEST                |             |            |           |            |           |           |          |
| Sampled By: Client on 30-MAR-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |           |            |           |           |          |
| Copper (Cu)-Total                              | <0.000012   |            | 0.000012  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lead (Pb)-Total                                | 0.0000015   |            | 0.0000012 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Iron (Fe)-Total                                | <0.00070    |            | 0.00070   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lithium (Li)-Total                             | <0.00012    |            | 0.00012   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Magnesium (Mg)-Total                           | 0.00116     |            | 0.00012   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Manganese (Mn)-Total                           | 0.0000830   |            | 0.0000023 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Molybdenum (Mo)-Total                          | <0.0000012  |            | 0.0000012 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Nickel (Ni)-Total                              | <0.000012   |            | 0.000012  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Phosphorus (P)-Total                           | <0.0012     |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Potassium (K)-Total                            | <0.0012     |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Selenium (Se)-Total                            | <0.000023   |            | 0.000023  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silicon (Si)-Total                             | <0.0012     |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silver (Ag)-Total                              | <0.00000023 |            | 0.0000002 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
|  |             |            | 3         |            |           |           |          |
| Sodium (Na)-Total                              | 0.0013      |            | 0.0012    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Strontium (Sr)-Total                           | 0.0000135   |            | 0.0000023 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Thallium (Tl)-Total                            | <0.0000023  |            | 0.0000023 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Tin (Sn)-Total                                 | <0.0000023  |            | 0.0000023 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Titanium (Ti)-Total                            | <0.00023    |            | 0.00023   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Uranium (U)-Total                              | <0.00000023 |            | 0.0000002 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
|  |             |            | 3         |            |           |           |          |
| Vanadium (V)-Total                             | <0.000023   |            | 0.000023  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Zinc (Zn)-Total                                | <0.000070   |            | 0.000070  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| L2749891-31 DUSTFALL - TRIP BLANK              |             |            |           |            |           |           |          |
| Sampled By: Client on 31-MAR-23                |             |            |           |            |           |           |          |
| Matrix: Dustfall                               |             |            |           |            |           |           |          |
| <b>Dustfalls-Total, Soluble, Insoluble +FV</b> |             |            |           |            |           |           |          |
| Total Dustfall                                 | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Total Insoluble Dustfall                       | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Total Soluble Dustfall                         | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Dustfall                                 | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Insoluble Dustfall                       | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Fixed Soluble Dustfall                         | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Dustfall                              | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Insoluble Dustfall                    | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Volatile Soluble Dustfall                      | <0.10       |            | 0.10      | mg/dm2.day |           | 21-APR-23 | R5946117 |
| Interval                                       |             |            | 1         | days       |           | 20-APR-23 | R5945157 |
| Mercury (Hg)-Total                             | <0.0000013  |            | 0.0000013 | mg/dm2.day | 20-APR-23 | 22-APR-23 | R5945716 |
| <b>Total Metals in Dustfalls by ICPMS</b>      |             |            |           |            |           |           |          |
| Aluminum (Al)-Total                            | 0.000159    |            | 0.000077  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Interval                                       |             |            | 1         | days       |           | 24-APR-23 | R5946096 |
| Antimony (Sb)-Total                            | <0.0000026  |            | 0.0000026 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Arsenic (As)-Total                             | <0.0000026  |            | 0.0000026 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Barium (Ba)-Total                              | 0.0000030   |            | 0.0000013 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Beryllium (Be)-Total                           | <0.000013   |            | 0.000013  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Bismuth (Bi)-Total                             | <0.000013   |            | 0.000013  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Boron (B)-Total                                | <0.00026    |            | 0.00026   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Cadmium (Cd)-Total                             | <0.0000013  |            | 0.0000013 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Calcium (Ca)-Total                             | 0.00166     |            | 0.00051   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Chromium (Cr)-Total                            | <0.000013   |            | 0.000013  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Cobalt (Co)-Total                              | <0.0000026  |            | 0.0000026 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                 | Result      | Qualifier* | D.L.       | Units      | Extracted | Analyzed  | Batch    |
|---|-------------|------------|------------|------------|-----------|-----------|----------|
| L2749891-31 DUSTFALL - TRIP BLANK         |             |            |            |            |           |           |          |
| Sampled By: Client on 31-MAR-23           |             |            |            |            |           |           |          |
| Matrix: Dustfall                          |             |            |            |            |           |           |          |
| <b>Total Metals in Dustfalls by ICPMS</b> |             |            |            |            |           |           |          |
| Copper (Cu)-Total                         | 0.000018    |            | 0.000013   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lead (Pb)-Total                           | <0.000013   |            | 0.000013   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Iron (Fe)-Total                           | <0.00077    |            | 0.00077    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Lithium (Li)-Total                        | <0.00013    |            | 0.00013    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Magnesium (Mg)-Total                      | 0.00017     |            | 0.00013    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Manganese (Mn)-Total                      | 0.0000242   |            | 0.000026   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Molybdenum (Mo)-Total                     | <0.0000051  | DLB        | 0.0000051  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Nickel (Ni)-Total                         | <0.000013   |            | 0.000013   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Phosphorus (P)-Total                      | <0.0013     |            | 0.0013     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Potassium (K)-Total                       | <0.0013     |            | 0.0013     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Selenium (Se)-Total                       | <0.000026   |            | 0.000026   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silicon (Si)-Total                        | <0.0013     |            | 0.0013     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Silver (Ag)-Total                         | <0.00000026 |            | 0.00000026 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Sodium (Na)-Total                         | <0.0013     |            | 0.0013     | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Strontium (Sr)-Total                      | <0.0000026  |            | 0.0000026  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Thallium (Tl)-Total                       | <0.0000026  |            | 0.0000026  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Tin (Sn)-Total                            | <0.0000026  |            | 0.0000026  | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Titanium (Ti)-Total                       | <0.00026    |            | 0.00026    | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Uranium (U)-Total                         | <0.00000026 |            | 0.00000026 | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Vanadium (V)-Total                        | <0.000026   |            | 0.000026   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |
| Zinc (Zn)-Total                           | <0.000077   |            | 0.000077   | mg/dm2.day | 24-APR-23 | 24-APR-23 | R5946136 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

**Sample Parameter Qualifier Key:**

| Qualifier | Description   |
|-----------|---|
| DLB       | Detection Limit Raised. Analyte detected at comparable level in Method Blank.   |
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity.   |
| DUP-H,J   | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.                   |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.  |

**Test Method References:**

| ALS Test Code   | Matrix   | Test Description                         | Method Reference**            |
|---|----------|--|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter   | Air volume (m3)                          | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter   | Air volume (m3)                          | EPA QA Guidance Document 2.12 |
| DUSTFALLS-ALL-DM2-VA  | Dustfall | Dustfalls-Total, Soluble, Insoluble +FV  | BC LAB MANUAL - PARTICULATE   |
| <p>This analysis is carried out using procedures modified from British Columbia Environmental Manual "Particulate."<br/>           Particulates or "Dustfalls" are determined gravimetrically. Total Insoluble and Soluble Dustfalls are determined by filtering a sample through a 0.45 um membrane filter and drying the filter and filtrate at 104 C, followed by ignition at 550 C. The remaining residue after 550 C represents the fixed portion and the weight lost on ignition represents the volatile portion. The sum of all fixed and volatile portions on both Insoluble and Soluble portions represents Total Dustfalls.</p> |          |  |                               |
| HG-DUST(DM2-CVAFS-VA)   | Dustfall | Total Mercury in Dustfalls by CVAFS      | EPA 245.7                     |
| <p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7).</p>  |          |  |                               |
| MET+IC/SOLID-CALC-BU  | Filter   | Metals + Anions + Cations / Solids Ratio | Calculation                   |
| MET-DUST(DM2)-MS-VA   | Dustfall | Total Metals in Dustfalls by ICPMS       | EPA 6020A                     |
| <p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>  |          |  |                               |
| MET-IO3.5-MS-BU   | Filter   | Metals on High Volume Filter by ICPMS    | IO3.5                         |
| <p>After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.</p>   |          |  |                               |
| PART-HIVOL-GRAV-BU  | Filter   | Particulate on High Volume Filter        | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter   | PM via Gravimetric Analysis              | EPA QA Guidance Document 2.12 |
| <p>The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3.</p>  |          |  |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                                     |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA         |
| VA                         | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

**Chain of Custody Numbers:**



## Reference Information

### Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

#### GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



## Quality Control Report

Workorder: L2749891

Report Date: 28-APR-23

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5946696</b> |                   |        |           |       |     |        |           |
| <b>WG3783236-3</b>     | <b>DUP</b>      | <b>L2749891-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Copper (Cu)            |                 | 192               | 210    |           | ug    | 9.0 | 20     | 25-APR-23 |
| Iron (Fe)              |                 | 1050              | 1110   |           | ug    | 5.4 | 25     | 25-APR-23 |
| Manganese (Mn)         |                 | 33.7              | 35.6   |           | ug    | 5.5 | 20     | 25-APR-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 25-APR-23 |
| Zinc (Zn)              |                 | 23.6              | 27.2   |           | ug    | 14  | 20     | 25-APR-23 |
| <b>WG3783236-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 93.7   |           | %     |     | 80-120 | 25-APR-23 |
| Cadmium (Cd)           |                 |                   | 96.6   |           | %     |     | 80-120 | 25-APR-23 |
| Cobalt (Co)            |                 |                   | 94.9   |           | %     |     | 80-120 | 25-APR-23 |
| Chromium (Cr)          |                 |                   | 96.5   |           | %     |     | 80-120 | 25-APR-23 |
| Copper (Cu)            |                 |                   | 99.9   |           | %     |     | 80-120 | 25-APR-23 |
| Iron (Fe)              |                 |                   | 97.8   |           | %     |     | 80-120 | 25-APR-23 |
| Manganese (Mn)         |                 |                   | 94.2   |           | %     |     | 80-120 | 25-APR-23 |
| Nickel (Ni)            |                 |                   | 96.9   |           | %     |     | 80-120 | 25-APR-23 |
| Lead (Pb)              |                 |                   | 93.4   |           | %     |     | 80-120 | 25-APR-23 |
| Selenium (Se)          |                 |                   | 97.6   |           | %     |     | 80-120 | 25-APR-23 |
| Vanadium (V)           |                 |                   | 96.0   |           | %     |     | 80-120 | 25-APR-23 |
| Zinc (Zn)              |                 |                   | 97.5   |           | %     |     | 80-120 | 25-APR-23 |
| <b>WG3783236-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 25-APR-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 25-APR-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 25-APR-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 25-APR-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 25-APR-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 25-APR-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 25-APR-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 25-APR-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 25-APR-23 |



## Quality Control Report

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| Test                        | Matrix          | Reference          | Result | Qualifier | Units      | RPD | Limit  | Analyzed  |
|-----------------------------|-----------------|--------------------|--------|-----------|------------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>      |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5946696</b> |                    |        |           |            |     |        |           |
| <b>WG3783236-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Selenium (Se)               |                 |                    | <1.3   |           | ug         |     | 1.25   | 25-APR-23 |
| Vanadium (V)                |                 |                    | <5.0   |           | ug         |     | 10     | 25-APR-23 |
| Zinc (Zn)                   |                 |                    | <4.5   |           | ug         |     | 4.5    | 25-APR-23 |
| <b>WG3783236-4</b>          | <b>MS</b>       | <b>L2749891-1</b>  |        |           |            |     |        |           |
| Arsenic (As)                |                 |                    | 99.4   |           | %          |     | 75-125 | 25-APR-23 |
| Cadmium (Cd)                |                 |                    | 101.3  |           | %          |     | 75-125 | 25-APR-23 |
| Cobalt (Co)                 |                 |                    | 100.0  |           | %          |     | 75-125 | 25-APR-23 |
| Chromium (Cr)               |                 |                    | 101.4  |           | %          |     | 75-125 | 25-APR-23 |
| Copper (Cu)                 |                 |                    | N/A    | MS-B      | %          |     | -      | 25-APR-23 |
| Iron (Fe)                   |                 |                    | N/A    | MS-B      | %          |     | -      | 25-APR-23 |
| Manganese (Mn)              |                 |                    | 109.1  |           | %          |     | 75-125 | 25-APR-23 |
| Nickel (Ni)                 |                 |                    | 102.5  |           | %          |     | 75-125 | 25-APR-23 |
| Lead (Pb)                   |                 |                    | 101.4  |           | %          |     | 75-125 | 25-APR-23 |
| Selenium (Se)               |                 |                    | 101.4  |           | %          |     | 75-125 | 25-APR-23 |
| Vanadium (V)                |                 |                    | 100.7  |           | %          |     | 75-125 | 25-APR-23 |
| Zinc (Zn)                   |                 |                    | 106.3  |           | %          |     | 75-125 | 25-APR-23 |
| <b>PART-HIVOL-GRAV-BU</b>   |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5946236</b> |                    |        |           |            |     |        |           |
| <b>WG3783220-2</b>          | <b>DUP</b>      | <b>L2749891-1</b>  |        |           |            |     |        |           |
| Total particulate           |                 | 30700              | 30700  |           | ug         | 0.0 | 5      | 05-APR-23 |
| <b>WG3783220-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total particulate           |                 |                    | <100   |           | ug         |     | 100    | 05-APR-23 |
| <b>PART-M212 F-GRAV-BU</b>  |                 |                    |        |           |            |     |        |           |
|                             | <b>Filter</b>   |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5946880</b> |                    |        |           |            |     |        |           |
| <b>WG3783362-2</b>          | <b>DUP</b>      | <b>L2749891-17</b> |        |           |            |     |        |           |
| Total particulate           |                 | 111                | 111    |           | ug         | 0.0 | 10     | 05-APR-23 |
| <b>WG3783362-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total particulate           |                 |                    | <15    |           | ug         |     | 15     | 05-APR-23 |
| <b>DUSTFALLS-ALL-DM2-VA</b> |                 |                    |        |           |            |     |        |           |
|                             | <b>Dustfall</b> |                    |        |           |            |     |        |           |
| <b>Batch</b>                | <b>R5946117</b> |                    |        |           |            |     |        |           |
| <b>WG3783115-1</b>          | <b>MB</b>       |                    |        |           |            |     |        |           |
| Total Dustfall              |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-APR-23 |
| Total Insoluble Dustfall    |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-APR-23 |
| Total Soluble Dustfall      |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-APR-23 |
| Fixed Dustfall              |                 |                    | <0.10  |           | mg/dm2.day |     | 0.1    | 21-APR-23 |



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| Test                                 | Matrix | Reference          | Result     | Qualifier | Units      | RPD      | Limit     | Analyzed  |
|--------------------------------------|--------|--------------------|------------|-----------|------------|----------|-----------|-----------|
| <b>DUSTFALLS-ALL-DM2-VA Dustfall</b> |        |                    |            |           |            |          |           |           |
| <b>Batch R5946117</b>                |        |                    |            |           |            |          |           |           |
| <b>WG3783115-1 MB</b>                |        |                    |            |           |            |          |           |           |
| Fixed Insoluble Dustfall             |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 21-APR-23 |
| Fixed Soluble Dustfall               |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 21-APR-23 |
| Volatile Dustfall                    |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 21-APR-23 |
| Volatile Insoluble Dustfall          |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 21-APR-23 |
| Volatile Soluble Dustfall            |        |                    | <0.10      |           | mg/dm2.day |          | 0.1       | 21-APR-23 |
| <b>HG-DUST(DM2-CVAFS-VA Dustfall</b> |        |                    |            |           |            |          |           |           |
| <b>Batch R5945716</b>                |        |                    |            |           |            |          |           |           |
| <b>WG3782994-3 DUP</b>               |        |                    |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        | <b>L2749891-29</b> | <0.0000014 | RPD-NA    | mg/dm2.day | N/A      | 20        | 22-APR-23 |
| <b>WG3782994-2 LCS</b>               |        |                    |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |                    | 87.7       |           | %          |          | 70-130    | 22-APR-23 |
| <b>WG3782994-1 MB</b>                |        |                    |            |           |            |          |           |           |
| Mercury (Hg)-Total                   |        |                    | <0.0000013 |           | mg/dm2.day |          | 0.0000013 | 22-APR-23 |
| <b>MET-DUST(DM2)-MS-VA Dustfall</b>  |        |                    |            |           |            |          |           |           |
| <b>Batch R5946136</b>                |        |                    |            |           |            |          |           |           |
| <b>WG3782993-3 DUP</b>               |        |                    |            |           |            |          |           |           |
| Aluminum (Al)-Total                  |        | <b>L2749891-28</b> | 0.00494    | DUP-H     | mg/dm2.day | 45       | 20        | 24-APR-23 |
| Antimony (Sb)-Total                  |        |                    | <0.0000024 | RPD-NA    | mg/dm2.day | N/A      | 20        | 24-APR-23 |
| Arsenic (As)-Total                   |        |                    | 0.0000044  | J         | mg/dm2.day | 0.000001 | 0.0000048 | 24-APR-23 |
| Barium (Ba)-Total                    |        |                    | 0.0000405  |           | mg/dm2.day | 18       | 20        | 24-APR-23 |
| Beryllium (Be)-Total                 |        |                    | <0.000012  | RPD-NA    | mg/dm2.day | N/A      | 20        | 24-APR-23 |
| Bismuth (Bi)-Total                   |        |                    | <0.000012  | RPD-NA    | mg/dm2.day | N/A      | 20        | 24-APR-23 |
| Boron (B)-Total                      |        |                    | <0.00024   | RPD-NA    | mg/dm2.day | N/A      | 20        | 24-APR-23 |
| Cadmium (Cd)-Total                   |        |                    | <0.0000012 | RPD-NA    | mg/dm2.day | N/A      | 20        | 24-APR-23 |
| Calcium (Ca)-Total                   |        |                    | 0.0226     |           | mg/dm2.day | 0.7      | 20        | 24-APR-23 |
| Chromium (Cr)-Total                  |        |                    | 0.000014   | J         | mg/dm2.day | 0.000004 | 0.000024  | 24-APR-23 |
| Cobalt (Co)-Total                    |        |                    | 0.0000025  | J         | mg/dm2.day | 0.000000 | 0.0000048 | 24-APR-23 |
| Copper (Cu)-Total                    |        |                    | 0.000047   |           | mg/dm2.day | 12       | 20        | 24-APR-23 |
| Lead (Pb)-Total                      |        |                    | 0.0000206  | DUP-H     | mg/dm2.day | 30       | 20        | 24-APR-23 |
| Iron (Fe)-Total                      |        |                    | 0.00537    | DUP-H,J   | mg/dm2.day | 0.00165  | 0.00146   | 24-APR-23 |
| Lithium (Li)-Total                   |        |                    | <0.00012   | RPD-NA    | mg/dm2.day | N/A      | 20        | 24-APR-23 |
| Magnesium (Mg)-Total                 |        |                    | 0.00458    |           | mg/dm2.day | 17       | 20        | 24-APR-23 |
| Manganese (Mn)-Total                 |        |                    | 0.000452   |           | mg/dm2.day | 6.0      | 20        | 24-APR-23 |
| Molybdenum (Mo)-Total                |        |                    | <0.0000037 | RPD-NA    | mg/dm2.day | N/A      | 20        | 24-APR-23 |
| Nickel (Ni)-Total                    |        |                    | 0.000036   | J         | mg/dm2.day | 0.000021 | 0.000024  | 24-APR-23 |



## Quality Control Report

Workorder: L2749891

Report Date: 28-APR-23

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| Test                       | Matrix          | Reference          | Result     | Qualifier | Units      | RPD      | Limit      | Analyzed  |
|----------------------------|-----------------|--------------------|------------|-----------|------------|----------|------------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> |                 |                    |            |           |            |          |            |           |
|                            | <b>Dustfall</b> |                    |            |           |            |          |            |           |
| <b>Batch</b>               | <b>R5946136</b> |                    |            |           |            |          |            |           |
| <b>WG3782993-3</b>         | <b>DUP</b>      | <b>L2749891-28</b> |            |           |            |          |            |           |
| Phosphorus (P)-Total       |                 | <0.0012            | <0.0012    | RPD-NA    | mg/dm2.day | N/A      | 20         | 24-APR-23 |
| Potassium (K)-Total        |                 | 0.0014             | 0.0019     | J         | mg/dm2.day | 0.0005   | 0.0024     | 24-APR-23 |
| Selenium (Se)-Total        |                 | <0.000024          | <0.000024  | RPD-NA    | mg/dm2.day | N/A      | 20         | 24-APR-23 |
| Silicon (Si)-Total         |                 | 0.0068             | 0.0108     | DUP-H,J   | mg/dm2.day | 0.0041   | 0.0024     | 24-APR-23 |
| Silver (Ag)-Total          |                 | 0.00000083         | 0.00000052 | J         | mg/dm2.day | 0.000000 | 0.00000048 | 24-APR-23 |
| Sodium (Na)-Total          |                 | 0.0022             | 0.0022     |           | mg/dm2.day | 1.7      | 20         | 24-APR-23 |
| Strontium (Sr)-Total       |                 | 0.0000507          | 0.0000556  |           | mg/dm2.day | 9.3      | 20         | 24-APR-23 |
| Thallium (Tl)-Total        |                 | <0.0000024         | <0.0000024 | RPD-NA    | mg/dm2.day | N/A      | 20         | 24-APR-23 |
| Tin (Sn)-Total             |                 | <0.0000024         | <0.0000024 | RPD-NA    | mg/dm2.day | N/A      | 20         | 24-APR-23 |
| Titanium (Ti)-Total        |                 | <0.00024           | <0.00024   | RPD-NA    | mg/dm2.day | N/A      | 20         | 24-APR-23 |
| Uranium (U)-Total          |                 | <0.00000024        | <0.0000002 | RPD-NA    | mg/dm2.day | N/A      | 20         | 24-APR-23 |
| Vanadium (V)-Total         |                 | <0.000024          | <0.000024  | RPD-NA    | mg/dm2.day | N/A      | 20         | 24-APR-23 |
| Zinc (Zn)-Total            |                 | 0.000127           | 0.000177   | J         | mg/dm2.day | 0.000050 | 0.000146   | 24-APR-23 |
| <b>WG3782993-2</b>         | <b>LCS</b>      |                    |            |           |            |          |            |           |
| Aluminum (Al)-Total        |                 |                    | 102.4      |           | %          |          | 80-120     | 24-APR-23 |
| Antimony (Sb)-Total        |                 |                    | 104.0      |           | %          |          | 80-120     | 24-APR-23 |
| Arsenic (As)-Total         |                 |                    | 103.1      |           | %          |          | 80-120     | 24-APR-23 |
| Barium (Ba)-Total          |                 |                    | 98.2       |           | %          |          | 80-120     | 24-APR-23 |
| Beryllium (Be)-Total       |                 |                    | 101.5      |           | %          |          | 80-120     | 24-APR-23 |
| Bismuth (Bi)-Total         |                 |                    | 98.1       |           | %          |          | 80-120     | 24-APR-23 |
| Boron (B)-Total            |                 |                    | 94.7       |           | %          |          | 80-120     | 24-APR-23 |
| Cadmium (Cd)-Total         |                 |                    | 98.6       |           | %          |          | 80-120     | 24-APR-23 |
| Calcium (Ca)-Total         |                 |                    | 98.9       |           | %          |          | 80-120     | 24-APR-23 |
| Chromium (Cr)-Total        |                 |                    | 103.4      |           | %          |          | 80-120     | 24-APR-23 |
| Cobalt (Co)-Total          |                 |                    | 101.5      |           | %          |          | 80-120     | 24-APR-23 |
| Copper (Cu)-Total          |                 |                    | 101.9      |           | %          |          | 80-120     | 24-APR-23 |
| Lead (Pb)-Total            |                 |                    | 97.2       |           | %          |          | 80-120     | 24-APR-23 |
| Iron (Fe)-Total            |                 |                    | 104.0      |           | %          |          | 80-120     | 24-APR-23 |
| Lithium (Li)-Total         |                 |                    | 100.5      |           | %          |          | 80-120     | 24-APR-23 |
| Magnesium (Mg)-Total       |                 |                    | 105.5      |           | %          |          | 80-120     | 24-APR-23 |
| Manganese (Mn)-Total       |                 |                    | 100.7      |           | %          |          | 80-120     | 24-APR-23 |
| Molybdenum (Mo)-Total      |                 |                    | 98.6       |           | %          |          | 80-120     | 24-APR-23 |
| Nickel (Ni)-Total          |                 |                    | 100.8      |           | %          |          | 80-120     | 24-APR-23 |
| Phosphorus (P)-Total       |                 |                    | 101.9      |           | %          |          | 80-120     | 24-APR-23 |

## Quality Control Report

Workorder: L2749891

Report Date: 28-APR-23

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| Test                       | Matrix          | Reference | Result     | Qualifier | Units      | RPD | Limit     | Analyzed  |
|----------------------------|-----------------|-----------|------------|-----------|------------|-----|-----------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> | <b>Dustfall</b> |           |            |           |            |     |           |           |
| <b>Batch</b>               | <b>R5946136</b> |           |            |           |            |     |           |           |
| <b>WG3782993-2</b>         | <b>LCS</b>      |           |            |           |            |     |           |           |
| Potassium (K)-Total        |                 |           | 103.7      |           | %          |     | 80-120    | 24-APR-23 |
| Selenium (Se)-Total        |                 |           | 96.3       |           | %          |     | 80-120    | 24-APR-23 |
| Silicon (Si)-Total         |                 |           | 100.5      |           | %          |     | 80-120    | 24-APR-23 |
| Silver (Ag)-Total          |                 |           | 91.9       |           | %          |     | 80-120    | 24-APR-23 |
| Sodium (Na)-Total          |                 |           | 108.3      |           | %          |     | 80-120    | 24-APR-23 |
| Strontium (Sr)-Total       |                 |           | 99.7       |           | %          |     | 80-120    | 24-APR-23 |
| Thallium (Tl)-Total        |                 |           | 101.0      |           | %          |     | 80-120    | 24-APR-23 |
| Tin (Sn)-Total             |                 |           | 94.6       |           | %          |     | 80-120    | 24-APR-23 |
| Titanium (Ti)-Total        |                 |           | 93.1       |           | %          |     | 80-120    | 24-APR-23 |
| Uranium (U)-Total          |                 |           | 98.8       |           | %          |     | 80-120    | 24-APR-23 |
| Vanadium (V)-Total         |                 |           | 103.1      |           | %          |     | 80-120    | 24-APR-23 |
| Zinc (Zn)-Total            |                 |           | 102.7      |           | %          |     | 80-120    | 24-APR-23 |
| <b>WG3782993-1</b>         | <b>MB</b>       |           |            |           |            |     |           |           |
| Aluminum (Al)-Total        |                 |           | <0.000079  |           | mg/dm2.day |     | 0.000079  | 24-APR-23 |
| Antimony (Sb)-Total        |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026 | 24-APR-23 |
| Arsenic (As)-Total         |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026 | 24-APR-23 |
| Barium (Ba)-Total          |                 |           | <0.0000013 |           | mg/dm2.day |     | 0.0000013 | 24-APR-23 |
| Beryllium (Be)-Total       |                 |           | <0.000013  |           | mg/dm2.day |     | 0.000013  | 24-APR-23 |
| Bismuth (Bi)-Total         |                 |           | <0.000013  |           | mg/dm2.day |     | 0.000013  | 24-APR-23 |
| Boron (B)-Total            |                 |           | <0.00026   |           | mg/dm2.day |     | 0.00026   | 24-APR-23 |
| Cadmium (Cd)-Total         |                 |           | <0.0000013 |           | mg/dm2.day |     | 0.0000013 | 24-APR-23 |
| Calcium (Ca)-Total         |                 |           | <0.00052   |           | mg/dm2.day |     | 0.00052   | 24-APR-23 |
| Chromium (Cr)-Total        |                 |           | <0.000013  |           | mg/dm2.day |     | 0.000013  | 24-APR-23 |
| Cobalt (Co)-Total          |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026 | 24-APR-23 |
| Copper (Cu)-Total          |                 |           | <0.000013  |           | mg/dm2.day |     | 0.000013  | 24-APR-23 |
| Lead (Pb)-Total            |                 |           | <0.0000013 |           | mg/dm2.day |     | 0.0000013 | 24-APR-23 |
| Iron (Fe)-Total            |                 |           | <0.00079   |           | mg/dm2.day |     | 0.00079   | 24-APR-23 |
| Lithium (Li)-Total         |                 |           | <0.00013   |           | mg/dm2.day |     | 0.00013   | 24-APR-23 |
| Magnesium (Mg)-Total       |                 |           | <0.00013   |           | mg/dm2.day |     | 0.00013   | 24-APR-23 |
| Manganese (Mn)-Total       |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026 | 24-APR-23 |
| Molybdenum (Mo)-Total      |                 |           | 0.0000021  | MB-LOR    | mg/dm2.day |     | 0.0000013 | 24-APR-23 |
| Nickel (Ni)-Total          |                 |           | <0.000013  |           | mg/dm2.day |     | 0.000013  | 24-APR-23 |
| Phosphorus (P)-Total       |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013    | 24-APR-23 |
| Potassium (K)-Total        |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013    | 24-APR-23 |



## Quality Control Report

Workorder: L2749891

Report Date: 28-APR-23

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| Test                       | Matrix          | Reference | Result     | Qualifier | Units      | RPD | Limit      | Analyzed  |
|----------------------------|-----------------|-----------|------------|-----------|------------|-----|------------|-----------|
| <b>MET-DUST(DM2)-MS-VA</b> | <b>Dustfall</b> |           |            |           |            |     |            |           |
| <b>Batch</b>               | <b>R5946136</b> |           |            |           |            |     |            |           |
| <b>WG3782993-1 MB</b>      |                 |           |            |           |            |     |            |           |
| Selenium (Se)-Total        |                 |           | <0.000026  |           | mg/dm2.day |     | 0.000026   | 24-APR-23 |
| Silicon (Si)-Total         |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013     | 24-APR-23 |
| Silver (Ag)-Total          |                 |           | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 24-APR-23 |
| Sodium (Na)-Total          |                 |           | <0.0013    |           | mg/dm2.day |     | 0.0013     | 24-APR-23 |
| Strontium (Sr)-Total       |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 24-APR-23 |
| Thallium (Tl)-Total        |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 24-APR-23 |
| Tin (Sn)-Total             |                 |           | <0.0000026 |           | mg/dm2.day |     | 0.0000026  | 24-APR-23 |
| Titanium (Ti)-Total        |                 |           | <0.00026   |           | mg/dm2.day |     | 0.00026    | 24-APR-23 |
| Uranium (U)-Total          |                 |           | <0.0000002 |           | mg/dm2.day |     | 0.00000026 | 24-APR-23 |
| Vanadium (V)-Total         |                 |           | <0.000026  |           | mg/dm2.day |     | 0.000026   | 24-APR-23 |
| Zinc (Zn)-Total            |                 |           | <0.000079  |           | mg/dm2.day |     | 0.000079   | 24-APR-23 |

# Quality Control Report

Workorder: L2749891

Report Date: 28-APR-23

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description   |
|-----------|---|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity.   |
| DUP-H,J   | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| J         | Duplicate results and limits are expressed in terms of absolute difference.   |
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.                   |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.  |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.   |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.





L2749891-COFC



Chain of Custody / Analytical Request Form
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

Report To: New Gold Inc. Report Format / Distribution: Service Requested: Regular Service
Company: Robyn Lloyd
Address: 1361 Roen Road, Chapple, ON P0W 1A0
Email 1: robyn.lloyd@newgold.com
Email 2:
Invoice To: Same as Report
Client / Project Information
Job #: 1 Air Quality
Location:
PO: 4500059107
Sampled by:
ALS Contact:
Sample #, Sample Identification, Date (dd-mm-yy), Time (hh:mm), Sample Type, TSP and Metals, Pm 2.5, Dustfall incl. volatile, Hazardous? Provide Data Highly Contaminated?, Number of Containers
1 NORTH-TSP-476 25-Mar-2023 12:00 Air X
2 SOUTH-TSP-476 25-Mar-2023 12:00 Air X
3 NORTHWEST-TSP-476 25-Mar-2023 12:00 Air X
4 NORTH-TSP-475 19-Mar-2023 12:00 Air X
5 SOUTH-TSP-475 19-Mar-2023 12:00 Air X
6 NORTHWEST-TSP-475 19-Mar-2023 12:00 Air X
7 NORTH-TSP-474 13-Mar-2023 12:00 Air X
8 SOUTH-TSP-474 13-Mar-2023 12:00 Air X
9 NORTHWEST-TSP-474 13-Mar-2023 12:00 Air X
10 NORTH-TSP-473 7-Mar-2023 12:00 Air X
11 SOUTH-TSP-473 7-Mar-2023 12:00 Air X
12 NORTHWEST-TSP-473 7-Mar-2023 12:00 Air X
13 NORTH-TSP-472 1-Mar-2023 12:00 Air X
14 SOUTH-TSP-472 1-Mar-2023 12:00 Air X
15 NORTHWEST-TSP-472 1-Mar-2023 12:00 Air X
16 TRIP BLANK - MARCH TSP 31-Mar-2023 12:00 Air X
17 NORTH-PM2.5-467 25-Mar-2023 12:00 Air X
18 SOUTH-PM2.5-467 25-Mar-2023 12:00 Air X
19 NORTH-PM2.5-468 19-Mar-2023 12:00 Air X
20 SOUTH-PM2.5-468 19-Mar-2023 12:00 Air X
21 NORTH-PM2.5-469 13-Mar-2023 12:00 Air X
22 SOUTH-PM2.5-469 13-Mar-2023 12:00 Air X
23 NORTH-PM2.5-470 7-Mar-2023 12:00 Air X
24 SOUTH-PM2.5-470 7-Mar-2023 12:00 Air X
25 NORTH-PM2.5-471 1-Mar-2023 12:00 Air X
26 SOUTH-PM2.5-471 1-Mar-2023 12:00 Air X
27 TRIP BLANK - FEBRUARY PM2.5 31-Mar-2023 12:00 Air X
28 Dustfall - Gallinger Road 30-Mar-2023 12:00 Air X
29 Dustfall - Tail Road (South) 30-Mar-2023 12:00 Air X
30 Dustfall - Northwest 30-Mar-2023 12:00 Air X
31 Dustfall - Trip Blank 31-Mar-2023 12:00 Air X
Special Instructions / Regulations / Hazardous Details
By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS
Released by: Date (dd-mm-yy) Time (hh:mm) Received by: Date: Time: Temperature: Verified by: Date: Time: Observations: Yes / No? If Yes add SIF



## Confirmation of Sample Receipt

Bureau Veritas Job Number: C316282

Job Received: 2023/03/09

Final Report Due: 2023/03/19

Disposal Date: 2023/04/13

### Invoice Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com

### Report Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com  
robyn.lloyd@newgold.com

### Project Information

**Quote #:** C21563  
**PO/AFE#:** 4500022601  
**Project #:** TC111504.2015.6  
**Site Location:** NEW GOLD - EMO, ON  
**Site #:** 2023/01/28 - 2023/03/02  
**Sampled By:** SF



## Confirmation of Sample Receipt

Bureau Veritas Job Number: C316282

Job Received: 2023/03/09

Final Report Due: 2023/03/19

Disposal Date: 2023/04/13

### Parameter Summary

| Package/Test         | Parameter      | RDL * | Unit | Samples |
|----------------------|----------------|-------|------|---------|
| NO2 Passive Analysis | Calculated NO2 | 0.1   | ppb  | All     |
| SO2 Passive Analysis | Calculated SO2 | 0.1   | ppb  | All     |

*\*RDLs are subject to change based on interferences present at the time of analysis.*



6744 - 50 St. Edmonton AB Canada T6B 3M9  
 Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Bureau Veritas Job Number:

**PASSIVE AIR CHAIN OF CUSTODY**

Page 1 of 1

**Invoice To**  
 Company Name ALS Environmental  
 Contact Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/Postal Code \_\_\_\_\_  
 Phone/Fax# \_\_\_\_\_

**Report To**  
 Name & Email Address  
 Robert Lloyd  
 r.lloyd@newgold.com

**Service Requested**  
 RUSH  
 (Please contact for TAT)  
 REGULAR

**Company Name**  
 ALS  
 Project Name/LSD  
 New Gold  
 TC111504.2015.6

**ANALYTICAL INFORMATION**

| Sample ID or Location (LSD) | Sample Start Date (DD/MM/YY) | Time (24 hrs) (HH:MM) | Sample End Date (DD/MM/YY) | Time (HH:MM) | Volume (m3) PM/TSP Only | Analysis Required |     |     |    |     |       |      |     |          |  |  |  |  |
|-----------------------------|------------------------------|-----------------------|----------------------------|--------------|-------------------------|-------------------|-----|-----|----|-----|-------|------|-----|----------|--|--|--|--|
|                             |                              |                       |                            |              |                         | SO2               | H2S | NO2 | CO | NH3 | PM2.5 | PM10 | TSP | Dustfall |  |  |  |  |
| PRP South                   | 28/01/23                     | 12:00                 | 02/03/23                   | 12:00        |                         | X                 |     |     |    |     |       |      |     |          |  |  |  |  |
| PRP North                   | 28/01/23                     | 12:00                 | 02/03/23                   | 12:00        |                         | X                 |     |     |    |     |       |      |     |          |  |  |  |  |
| Blank                       |                              |                       |                            |              |                         | X                 |     |     |    |     |       |      |     |          |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |

Notes/Comments: Client 13251 / Scenario 12539

Sampled By \_\_\_\_\_ Phone/Email \_\_\_\_\_  
 Date Shipped 2023-03-03 Received By \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Signature Robert Lloyd PO# 3502 Project # 3102  
 12323-03-09 06130

PTC FCD-00457/4  
 Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions.  
 Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at <http://www.bv.com/terms-and-conditions>.



Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/01/28 - 2023/03/02  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/03/15**  
 Report #: R3310736  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C316282**

**Received: 2023/03/09, 10:46**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/03/13 | 2023/03/15 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/03/10 | 2023/03/15 | PTC SOP-00149     | Passive SO2 in ATM |

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\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

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**BUREAU  
VERITAS**

Bureau Veritas Job #: C316282  
Report Date: 2023/03/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: SF

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | BNE071              | BNE072              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/01/28<br>12:00 | 2023/01/28<br>12:00 |     |          |
|                                  | UNITS | RRP SOUTH           | RRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.3                 | 0.8                 | 0.1 | A906794  |
| Calculated SO2                   | ppb   | 0.3                 | 0.3                 | 0.1 | A905435  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C316282  
Report Date: 2023/03/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: SF

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C316282  
Report Date: 2023/03/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: SF

### QUALITY ASSURANCE REPORT

| QA/QC<br>Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| A905435        | OZ   | Spiked Blank | Calculated SO2 |               |       | 98       | %     | 90 - 110  |
| A905435        | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |
| A906794        | SDK  | Spiked Blank | Calculated NO2 |               |       | 99       | %     | 90 - 110  |
| A906794        | SDK  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.





BUREAU  
VERITAS

Bureau Veritas Job #: C316282  
Report Date: 2023/03/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: SF

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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Yang Liu, Analyst II

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Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2022/12/27 - 2023/01/28  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/02/16**  
 Report #: R3300449  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C308531**

**Received: 2023/02/06, 10:30**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/02/07 | 2023/02/14 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/02/08 | 2023/02/14 | PTC SOP-00149     | Passive SO2 in ATM |

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**Encryption Key**

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 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

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**BUREAU  
VERITAS**

Bureau Veritas Job #: C308531  
Report Date: 2023/02/16

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: SF

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | BLK124              | BLK125              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2022/12/27<br>00:00 | 2022/12/27<br>00:00 |     |          |
|                                  | UNITS | RRP SOUTH           | RRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.7                 | 0.5                 | 0.1 | A874819  |
| Calculated SO2                   | ppb   | 0.2                 | 0.2                 | 0.1 | A876137  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU  
VERITAS**

Bureau Veritas Job #: C308531

Report Date: 2023/02/16

ALS Environmental

Client Project #: TC111504.2015.6

Site Location: NEW GOLD - EMO, ON

Your P.O. #: 4500022601

Sampler Initials: SF

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C308531  
Report Date: 2023/02/16

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: SF

### QUALITY ASSURANCE REPORT

| QA/QC | Batch   | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------|---------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
|       | A874819 | SDK  | Spiked Blank | Calculated NO2 |               |       | 98       | %     | 90 - 110  |
|       | A874819 | SDK  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |
|       | A876137 | OZ   | Spiked Blank | Calculated SO2 |               |       | 98       | %     | 90 - 110  |
|       | A876137 | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C308531  
Report Date: 2023/02/16

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: SF

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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Yang Liu, Analyst II

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Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/03/02 - 2023/03/30  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/04/20**  
 Report #: R3324521  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C324945**

**Received: 2023/04/11, 07:30**

Sample Matrix: Air  
 # Samples Received: 2

| <b>Analyses</b>      | <b>Quantity</b> | <b>Date Extracted</b> | <b>Date Analyzed</b> | <b>Laboratory Method</b> | <b>Analytical Method</b> |
|----------------------|-----------------|-----------------------|----------------------|--------------------------|--------------------------|
| NO2 Passive Analysis | 2               | 2023/04/13            | 2023/04/19           | PTC SOP-00148            | Passive NO2 in ATM       |
| SO2 Passive Analysis | 2               | 2023/04/12            | 2023/04/19           | PTC SOP-00149            | Passive SO2 in ATM       |

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 Email: PassiveAir@bureauveritas.com  
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**BUREAU  
VERITAS**

Bureau Veritas Job #: C324945  
Report Date: 2023/04/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | BOS083              | BOS084              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/03/02<br>12:00 | 2023/03/02<br>12:00 |     |          |
|                                  | UNITS | RRP SOUTH           | RRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.3                 | 0.2                 | 0.1 | A938749  |
| Calculated SO2                   | ppb   | <0.1                | <0.1                | 0.1 | A933369  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |





**BUREAU  
VERITAS**

Bureau Veritas Job #: C324945  
Report Date: 2023/04/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C324945  
Report Date: 2023/04/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC<br>Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| A933369        | OZ   | Spiked Blank | Calculated SO2 |               |       | 99       | %     | 90 - 110  |
| A933369        | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |
| A938749        | SDK  | Spiked Blank | Calculated NO2 |               |       | 99       | %     | 90 - 110  |
| A938749        | SDK  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C324945  
Report Date: 2023/04/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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Yang Liu, Analyst II

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# **APPENDIX D: HI-VOL & PQ200 SAMPLER CALIBRATION SHEETS**

**Audited Instrument:**

Station: Northwest Make/Model: PQ200 S/N: 7907  
Date: 2023-01-28 Time: 1545 deltaCal<sup>®</sup>/S/N: H2457  
RL CC

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.7

deltaCal<sup>®</sup>: 15.64

% diff. =  $[(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 = -6.7$

Allowed diff. = 4%; Pass \_\_\_\_\_ Fail X

Recalibrated

**Ambient Temp. - °C**

Sampler: -19.2

deltaCal<sup>®</sup>: -19.2

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 732

deltaCal<sup>®</sup>: 732.1

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: -18.7

deltaCal<sup>®</sup>: -19.3

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: Northwest Make/Model: PQ200 S/N: 79407

Date: 2023-02-04 Time: 1143 deltaCal®S/N: 172457

\* Recalibrating due to Min load exceeded error  
+ Fail to sample last run.

**Leak Test**

Pass ~~\_\_\_\_\_~~ Fail ~~\_\_\_\_\_~~

**Flow Rate – Lpm**

Sampler: 16.7

deltaCal®: 17.58

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 5.00$

Allowed diff. = 4%; Pass \_\_\_\_\_ Fail X

**Ambient Temp. - °C**

Sampler: -9.9

deltaCal®: -8.8

Allowed diff. =  $\pm 10^{\circ}\text{C}$ ; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 727

deltaCal®: 727.7

Allowed diff. =  $\pm 10$  mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: ~~\_\_\_\_\_~~

deltaCal®: ~~\_\_\_\_\_~~

Allowed diff. =  $\pm 2^\circ\text{C}$ ; Pass \_\_\_\_\_ Fail \_\_\_\_\_

**Audited Instrument:**

Station: North Make/Model: PQ200 S/N: 1752  
Date: 2023-02-04 Time: 13:25 deltaCal<sup>®</sup>/S/N: 172457  
RL SS

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.7

deltaCal<sup>®</sup>: 17.1

% diff. =  $[(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 = 2.3$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: -8.8

deltaCal<sup>®</sup>: -8.1

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 719

deltaCal<sup>®</sup>: 718.3

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: -6.2

deltaCal<sup>®</sup>: -7.0

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: South Make/Model: P0200 S/N: 1751

Date: 2023-02-04 Time: 1345 deltaCal® S/N: 172457

2L SS

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.67

deltaCal®: 16.80

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 6.77$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: -9.5

deltaCal®: -9.4

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 718

deltaCal®: 718.6

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: -7.5

deltaCal®: -9.0

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_



**Audited Instrument:**

Station: South Make/Model: P0200 S/N: 1751

Date: 2023-03-04 Time: 12:15 deltaCal®S/N: 172457

RL/SJ

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.70

deltaCal®: 16.86

% diff. = [(deltaCal®-sampler)/deltaCal®] x 100 = 0.95

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 3.0

deltaCal®: 4.1

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 722

deltaCal®: 724

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 4.1

deltaCal®: 5.2

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: North Make/Model: PQ200 S/N: 1752

Date: 2023-03-04 Time: 1135 deltaCal® S/N: 172457

PC/SJ

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.7

deltaCal®: 16.92

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 1.3$

Allowed diff. = 4%; Pass Y Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: -0.7

deltaCal®: 0.0

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 722

deltaCal®: 722.9

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 1.3

deltaCal®: 1.0

Allowed diff. = ± 2°C; Pass Y Fail \_\_\_\_\_



**Site Information**

|                                |                       |                         |
|--------------------------------|-----------------------|-------------------------|
| <b>Location:</b> North Station | <b>Site ID:</b> 145   | <b>Date:</b> 4-Jan-22   |
| <b>Sampler:</b> E-5170 MFC     | <b>Serial No:</b> 367 | <b>Tech:</b> Robyn Lbyd |

**Site Conditions**

|   |  |
|---|--|
| <b>Barometric Pressure (in Hg):</b> 28.50 | <b>Corrected Pressure (mm Hg):</b> 724 |
| <b>Temperature (deg F):</b> 22            | <b>Temperature (deg K):</b> 267        |
| <b>Average Press. (in Hg):</b> 22.50      | <b>Corrected Average (mm Hg):</b> 572  |
| <b>Average Temp. (deg F):</b> 22          | <b>Average Temp. (deg K):</b> 267      |

**Calibration Orifice**

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Make:</b> Tisch    | <b>Qstd Slope:</b> 1.68160       |
| <b>Model:</b> TE-5028 | <b>Qstd Intercept:</b> -0.02742  |
| <b>Serial#:</b> 3662  | <b>Date Certified:</b> 27-Sep-22 |

**Calibration Information**

| Plate or Test # | H2O (in) | Qstd (m3/min) | I (chart) | IC (corrected) | Linear Regression   |
|-----------------|----------|---------------|-----------|----------------|---|
| 1               | 4.23     | 1.276         | 46.0      | 47.39          | <b>Slope:</b> 29.5310<br><b>Intercept:</b> 10.0089<br><b>Corr. Coeff:</b> 0.9904<br><br><b># of Observations:</b> 5 |
| 2               | 3.63     | 1.184         | 44.0      | 45.33          |   |
| 3               | 3.28     | 1.126         | 42.0      | 43.27          |   |
| 4               | 2.79     | 1.040         | 40.0      | 41.21          |   |
| 5               | 2.61     | 1.006         | 38.0      | 39.15          |   |

**Calculations**

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$   
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

- m = sampler slope
- b = sampler intercept
- I = chart response
- Tav = daily average temperature
- Pav = daily average pressure

Qstd = standard flow rate  
 IC = corrected chart response  
 I = actual chart response  
 m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration (deg K)  
 Pa = actual pressure during calibration (mm Hg)  
 Tstd = 298 deg K  
 Pstd = 760 mm Hg  
 For subsequent calculation of sampler flow:  
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$

|   |
|---|
| <b>Average I (chart):</b> 44.0                        |
| <b>Average Flow Calculation m3/min</b><br>1.024923372 |
| <b>Average Flow Calculation in CFM</b><br>36.19004427 |
| <b>Sample Time (Hrs):</b> 24.0                        |
| <b>Total Flow in m3/min</b><br>1475.889656            |
| <b>Total Flow in CFM</b><br>52113.66375               |

**NOTE: Ensure calibration orifice has been certified within 12 months of use**



**Site Information**

|                                    |                       |                         |
|------------------------------------|-----------------------|-------------------------|
| <b>Location:</b> Northwest Station | <b>Site ID:</b> 145   | <b>Date:</b> 5-Jan-22   |
| <b>Sampler:</b> E-5170 MFC         | <b>Serial No:</b> 367 | <b>Tech:</b> Robyn Lbyd |

**Site Conditions**

|   |  |
|---|--|
| <b>Barometric Pressure (in Hg):</b> 28.60 | <b>Corrected Pressure (mm Hg):</b> 726 |
| <b>Temperature (deg F):</b> 12            | <b>Temperature (deg K):</b> 262        |
| <b>Average Press. (in Hg):</b> 28.60      | <b>Corrected Average (mm Hg):</b> 726  |
| <b>Average Temp. (deg F):</b> 12          | <b>Average Temp. (deg K):</b> 262      |

**Calibration Orifice**

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Make:</b> Tisch    | <b>Qstd Slope:</b> 1.68160       |
| <b>Model:</b> TE-5028 | <b>Qstd Intercept:</b> -0.02742  |
| <b>Serial#:</b> 3662  | <b>Date Certified:</b> 27-Sep-22 |

**Calibration Information**

| Plate or Test # | H2O (in) | Qstd (m3/min) | I (chart) | IC (corrected) | Linear Regression  |
|-----------------|----------|---------------|-----------|----------------|--|
| 1               | 3.90     | 1.241         | 44.0      | 45.87          | <b>Slope:</b> 31.7427<br><b>Intercept:</b> 6.3681<br><b>Corr. Coeff:</b> 0.9947<br><br><b># of Observations:</b> 5 |
| 2               | 3.47     | 1.171         | 42.0      | 43.78          |  |
| 3               | 3.18     | 1.122         | 40.0      | 41.70          |  |
| 4               | 2.84     | 1.061         | 38.0      | 39.61          |  |
| 5               | 2.37     | 0.971         | 36.0      | 37.53          |  |

**Calculations**

$Qstd = 1/m[\text{sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$   
 $IC = I[\text{sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate  
 IC = corrected chart response  
 I = actual chart response

m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration (deg K)  
 Pa = actual pressure during calibration (mm Hg)  
 Tstd = 298 deg K  
 Pstd = 760 mm Hg  
 For subsequent calculation of sampler flow:  
 $1/m((I)[\text{sqrt}(298/Tav)(Pav/760)]-b)$

m = sampler slope  
 b = sampler intercept  
 I = chart response  
 Tav = daily average temperature  
 Pav = daily average pressure

|   |
|---|
| <b>Average I (chart):</b> 44.0                        |
| <b>Average Flow Calculation m3/min</b><br>1.244995612 |
| <b>Average Flow Calculation in CFM</b><br>43.96079506 |
| <b>Sample Time (Hrs):</b> 24.0                        |
| <b>Total Flow in m3/min</b><br>1792.793681            |
| <b>Total Flow in CFM</b><br>63303.54488               |

**NOTE: Ensure calibration orifice has been certified within 12 months of use**



**Site Information**

|                                |                       |                          |
|--------------------------------|-----------------------|--------------------------|
| <b>Location:</b> South Station | <b>Site ID:</b> 145   | <b>Date:</b> 4-Jan-22    |
| <b>Sampler:</b> E-5170 MFC     | <b>Serial No:</b> 367 | <b>Tech:</b> Robyn Lloyd |

**Site Conditions**

|   |  |
|---|--|
| <b>Barometric Pressure (in Hg):</b> 28.50 | <b>Corrected Pressure (mm Hg):</b> 724 |
| <b>Temperature (deg F):</b> 22            | <b>Temperature (deg K):</b> 267        |
| <b>Average Press. (in Hg):</b> 22.50      | <b>Corrected Average (mm Hg):</b> 572  |
| <b>Average Temp. (deg F):</b> 22          | <b>Average Temp. (deg K):</b> 267      |

**Calibration Orifice**

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Make:</b> Tisch    | <b>Qstd Slope:</b> 1.68160       |
| <b>Model:</b> TE-5028 | <b>Qstd Intercept:</b> -0.02742  |
| <b>Serial#:</b> 3662  | <b>Date Certified:</b> 27-Sep-22 |

**Calibration Information**

| Plate or Test # | H2O (in) | Qstd (m3/min) | I (chart) | IC (corrected) | Linear Regression   |
|-----------------|----------|---------------|-----------|----------------|---|
| 1               | 3.89     | 1.225         | 48.0      | 49.45          | <b>Slope:</b> 23.4990<br><b>Intercept:</b> 20.3060<br><b>Corr. Coeff:</b> 0.9959<br><br><b># of Observations:</b> 5 |
| 2               | 3.51     | 1.164         | 46.0      | 47.39          |   |
| 3               | 2.96     | 1.070         | 44.0      | 45.33          |   |
| 4               | 2.51     | 0.987         | 42.0      | 43.27          |   |
| 5               | 1.98     | 0.878         | 40.0      | 41.21          |   |

**Calculations**

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$   
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

- m = sampler slope
- b = sampler intercept
- I = chart response
- Tav = daily average temperature
- Pav = daily average pressure

Qstd = standard flow rate  
 IC = corrected chart response  
 I = actual chart response  
 m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration (deg K)  
 Pa = actual pressure during calibration (mm Hg)  
 Tstd = 298 deg K  
 Pstd = 760 mm Hg  
 For subsequent calculation of sampler flow:  
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$

|   |
|---|
| <b>Average I (chart):</b> 44.0                        |
| <b>Average Flow Calculation m3/min</b><br>0.849817296 |
| <b>Average Flow Calculation in CFM</b><br>30.00704871 |
| <b>Sample Time (Hrs):</b> 24.0                        |
| <b>Total Flow in m3/min</b><br>1223.736906            |
| <b>Total Flow in CFM</b><br>43210.15015               |

**NOTE: Ensure calibration orifice has been certified within 12 months of use**



**Site Information**

|   |                                |                                   |
|---|--------------------------------|-----------------------------------|
| Location: <a href="#">South Station</a> | Site ID: <a href="#">145</a>   | Date: <a href="#">17-Apr-23</a>   |
| Sampler: <a href="#">E-5170 MFC</a>     | Serial No: <a href="#">367</a> | Tech: <a href="#">Robyn Lloyd</a> |

**Site Conditions**

|  |   |
|--|---|
| Barometric Pressure (in Hg): <a href="#">28.50</a> | Corrected Pressure (mm Hg): <a href="#">722</a> |
| Temperature (deg F): <a href="#">44</a>            | Temperature (deg K): <a href="#">280</a>        |
| Average Press. (in Hg): <a href="#">28.43</a>      | Corrected Average (mm Hg): <a href="#">722</a>  |
| Average Temp. (deg F): <a href="#">44</a>          | Average Temp. (deg K): <a href="#">280</a>      |

**Calibration Orifice**

|                                |   |
|--------------------------------|---|
| Make: <a href="#">Tisch</a>    | Qstd Slope: <a href="#">1.05299</a>       |
| Model: <a href="#">TE-5028</a> | Qstd Intercept: <a href="#">-0.01721</a>  |
| Serial#: <a href="#">3662</a>  | Date Certified: <a href="#">27-Sep-23</a> |

**Calibration Information**

| Plate or Test #   | H2O (in)             | Qstd (m3/min)         | I (chart)            | IC (corrected)        | Linear Regression   |
|-------------------|----------------------|-----------------------|----------------------|-----------------------|---|
| <a href="#">1</a> | <a href="#">2.86</a> | <a href="#">1.633</a> | <a href="#">48.0</a> | <a href="#">48.31</a> | <b>Slope:</b> <a href="#">16.8864</a><br><b>Intercept:</b> <a href="#">20.3347</a><br><b>Corr. Coeff:</b> <a href="#">0.9954</a><br><b># of Observations:</b> <a href="#">5</a> |
| <a href="#">2</a> | <a href="#">2.60</a> | <a href="#">1.557</a> | <a href="#">46.0</a> | <a href="#">46.30</a> |   |
| <a href="#">3</a> | <a href="#">2.20</a> | <a href="#">1.434</a> | <a href="#">44.0</a> | <a href="#">44.28</a> |   |
| <a href="#">4</a> | <a href="#">1.78</a> | <a href="#">1.292</a> | <a href="#">42.0</a> | <a href="#">42.27</a> |   |
| <a href="#">5</a> | <a href="#">1.47</a> | <a href="#">1.175</a> | <a href="#">40.0</a> | <a href="#">40.26</a> |   |

**Calculations**

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$   
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$

- m = sampler slope
- b = sampler intercept
- I = chart response
- Tav = daily average temperature
- Pav = daily average pressure

Qstd = standard flow rate  
 IC = corrected chart response  
 I = actual chart response  
 m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration (deg K)  
 Pa = actual pressure during calibration (mm Hg)  
 Tstd = 298 deg K  
 Pstd = 760 mm Hg  
 For subsequent calculation of sampler flow:  
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$

|   |
|---|
| <b>Average I (chart):</b> <a href="#">44.0</a>                        |
| <b>Average Flow Calculation m3/min</b><br><a href="#">1.417606046</a> |
| <b>Average Flow Calculation in CFM</b><br><a href="#">50.05566949</a> |
| <b>Sample Time (Hrs):</b> <a href="#">24.0</a>                        |
| <b>Total Flow in m3/min</b><br><a href="#">2041.352706</a>            |
| <b>Total Flow in CFM</b><br><a href="#">72080.16407</a>               |

**NOTE: Ensure calibration orifice has been certified within 12 months of use**

# **APPENDIX E: SAMPLE EDIT LOGS**

## APPENDIX E-1: TOTAL SUSPENDED PARTICULATE SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Total Suspended Particulate (TSP)

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: January 1, 2023

End Date: March 31, 2023

| # | Action         | Date   | Reason  |
|---|----------------|--------|---|
| 1 | Invalid sample | Jan 6  | Sample volume was below the lower volume limit    |
| 2 | Invalid sample | Jan 18 | Sample volume was above the maximum volume limit  |
| 3 | Invalid sample | Jan 24 | Sample volume was above the maximum volume limit  |
| 4 | Invalid sample | Jan 30 | Sample volume was above the maximum volume limit  |
| 5 | Invalid sample | Mar 1  | Sample volumes was above the maximum volume limit |
| 6 | Invalid sample | Mar 13 | Sample volumes was above the maximum volume limit |
| 7 | Invalid sample | Mar 25 | Sample volumes was above the maximum volume limit |



Address: Rainy River Mine

Measurement Instrument: High Volume (Hi-Vol) Sampler

Station Name: Northwest Station

Start Date: January 1, 2023

Station Location: North-west of the Site at Tailings Management Area

End Date: March 31, 2023

| # | Action         | Date   | Reason   |
|---|----------------|--------|--|
| 1 | Invalid sample | Feb 11 | Sample volume was below the lower volume limit |
| 2 | Invalid sample | Mar 25 | Sample volume was below the lower volume limit |

Address: Rainy River Mine

Station Name: North (Gallinger Road)

Station Location: North of the Site at Gallinger Road

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: January 1, 2023

End Date: March 31, 2023

| # | Action         | Date   | Reason   |
|---|----------------|--------|--|
| 1 | Invalid sample | Jan 18 | Sample volume above the maximum volume limit   |
| 2 | Invalid sample | Jan 24 | Sample volume was below the lower volume limit |
| 3 | Invalid sample | Feb 17 | Sample volume was below the lower volume limit |
| 4 | Invalid sample | Feb 23 | Sample volume was below the lower volume limit |
| 5 | Invalid sample | Mar 1  | Sample volume was below the lower volume limit |
| 6 | Invalid sample | Mar 13 | Sample volume was below the lower volume limit |

## APPENDIX E-2: RESPIRABLE PARTICULATE MATTER SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: January 1, 2023

End Date: March 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Gallinger Road Station

Station Location: North-east of the Site along Gallinger Road

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: January 1, 2023

End Date: March 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |

|   |  |  |  |
|---|--|--|--|
| 1 |  |  |  |
|---|--|--|--|

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: January 1, 2023

End Date: March 30, 2023

| # | Action         | Date                   | Reason  |
|---|----------------|------------------------|---|
| 1 | Invalid Sample | Feb 5 – Mar 25<br>2023 | Sampler did not record sample volume as it was out for repair |

## APPENDIX E-3: DUSTFALL SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Dustfall

Measurement Instrument: Passive Sampler Jar

Start Date: January 1, 2023

End Date: March 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |



**NEW GOLD INC.  
RAINY RIVER MINE**

**AMBIENT AIR QUALITY MONITORING PROGRAM  
SECOND QUARTER 2023 REPORT**

**AUGUST 2023**

## ACRONYMS AND ABBREVIATIONS

|                          |  |
|--------------------------|--|
| $\mu\text{g}/\text{m}^3$ | Microgram per Cubic Metre  |
| AAQC                     | Ambient Air Quality Criteria   |
| AAQO                     | Alberta Ambient Air Quality Objectives                                 |
| ACFM                     | Cubic Feet Per Minute at Actual Conditions                             |
| AEP                      | Alberta Environment and Parks  |
| ASTM                     | American Society for Testing and Materials                             |
| BCMOE                    | British Columbia Ministry of the Environment                           |
| CAAQS                    | Canadian Ambient Air Quality Standards                                 |
| CFM                      | Cubic Foot Per Minute  |
| Hi-Vol                   | High Volume Sampler  |
| ICP/AES                  | Inductively Coupled Plasma / Atomic Emission Spectroscopy              |
| ICP/MS                   | Inductively Coupled Plasma / Mass Spectrometry                         |
| LPM                      | Litres Per Minute  |
| MECP                     | Ministry of the Environment, Conservation and Parks                    |
| NIST                     | National Institute of Standards and Technology                         |
| $\text{NO}_2$            | Nitrogen Dioxide   |
| $\text{PM}_{2.5}$        | Particulate Matter less than 2.5 microns ( $\mu\text{m}$ ) in diameter |
| POI                      | Point of Impingement   |
| $\text{SO}_2$            | Sulphur Dioxide  |
| TSP                      | Total Suspended Particulate  |
| U.S. EPA                 | United States Environmental Protection Agency                          |
| UTM                      | Universal Transverse Mercator  |

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## **Section 1. INTRODUCTION**

The following is a summary of the Second Quarter 2023 Report results of the Ambient Air Quality Monitoring Program undertaken at New Gold Inc.'s Rainy River Mine located north-west of Emo, Ontario.

In this quarter, New Gold Inc. (New Gold) staff operated and maintained the ambient air quality monitoring sampling stations; communicated with laboratory staff, as required; prepared data summary reports; and performed equipment calibrations at the various monitoring stations, as necessary.

This Quarterly Ambient Air Quality Report addresses the required elements of a Quarterly Report, as defined in the "Operations Manual for Air Quality Monitoring in Ontario" (Ontario Ministry of the Environment, Conservation and Parks, 2019), hereafter referred to as the Operations Manual. The following information is provided:

- Sampling Details
- Contaminant Summary Statistics
  - Number of Valid Samples and Percent Valid Data
  - Arithmetic and Geometric Means
  - Max Sampling Results
- Summary of Exceedances of All Applicable Limits (incl. Ontario AAQCs and CAAQS)

The purpose of the Ambient Air Quality Monitoring Program is to quantify the potential air quality effects associated with mining activities. The Program is conducted in accordance with the Site's Amended Environmental Compliance Approval (ECA) No. 0412-A2LR4V, issued on September 24, 2015, and the MECP Program Approval Letter, dated November 9, 2016.

The Program consists of three (3) sampling stations established in May 2015:

- South-west of the Site near McMillan Road along the realigned Highway 600 (Tait Road Station);
- North-east of the Site along Gallinger Road (Gallinger Road Station); and
- North-west monitoring station.

These sampling stations consist of:

- One (1) High Volume (Hi-Vol) Sampler for discrete sampling of total suspended particulate (TSP) and metals;
- One (1) PQ200 Sampler for discrete sampling of respirable particulate matter (PM<sub>2.5</sub>);
- One (1) passive dustfall collection unit for sampling dustfall; and

- One (1) passive sampling enclosure for sampling nitrogen dioxide (NO<sub>2</sub>) and sulphur dioxide (SO<sub>2</sub>).

## Section 2. MONITORING STATIONS

The ambient air quality monitoring stations were sited in accordance with the criteria stipulated in the Operations Manual (2019).

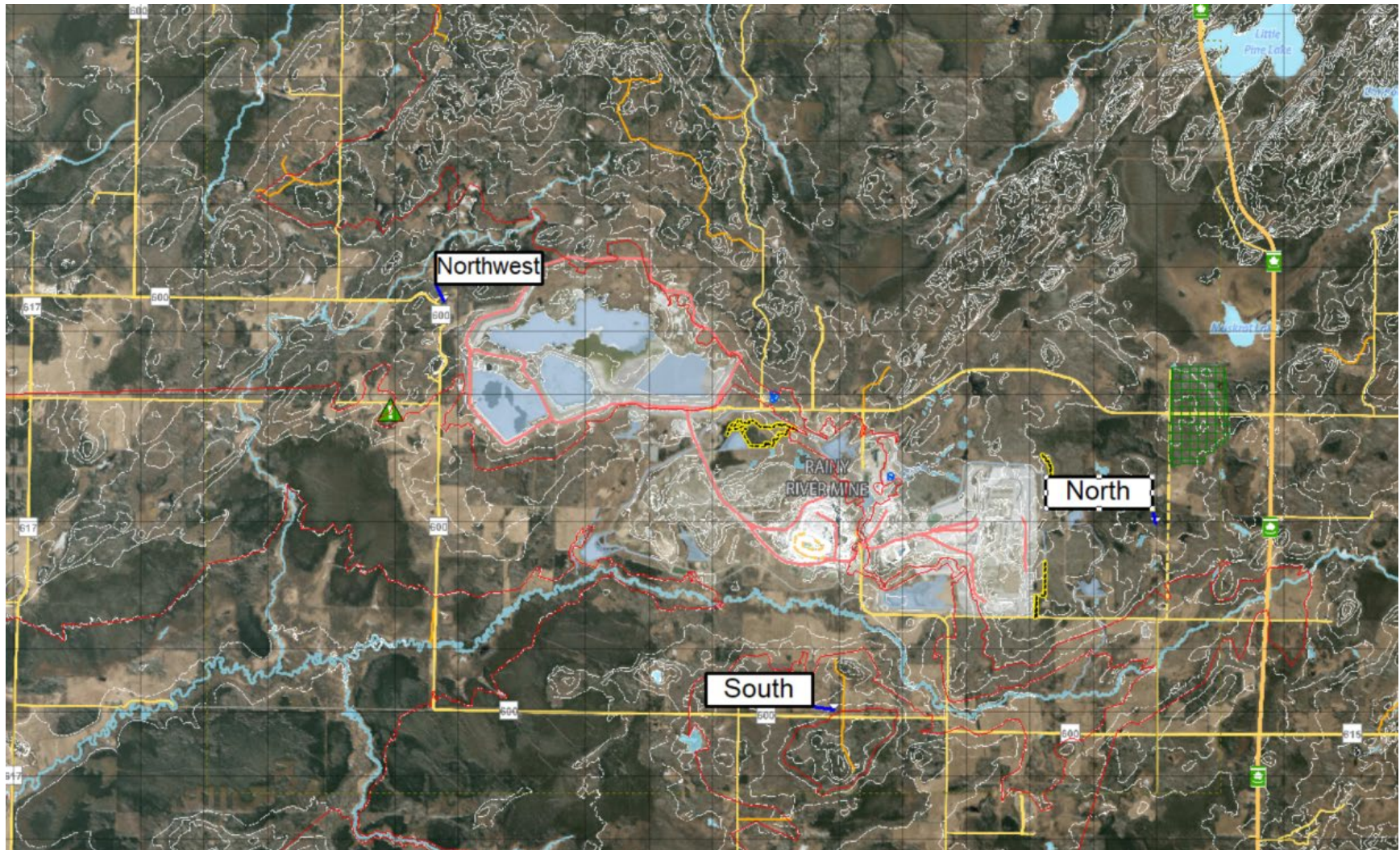
Universal Transverse Mercator (UTM) co-ordinates for each station based on the NAD83 co-ordinate system are presented in **Table 2-1**. The stations are shown in **Figure 2-1** through **Figure 2-7** below.

*Table 2-1. Ambient Air Monitoring Stations*

| Station                            | UTM Co-ordinates |              |      | Parameters Monitored   |
|------------------------------------|------------------|--------------|------|--|
|                                    | Easting (m)      | Northing (m) | Zone |  |
| Tait Road (Southwest Station)      | 426 072          | 5 406 996    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Gallinger Road (Northeast Station) | 431 133          | 5 410 534    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Northwest Station (TMA)            | 419 797          | 5 413 042    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall                                    |

### 2.1 METEOROLOGICAL STATION

Barron Site, located near Heatwole Road, contains a meteorological station that provides real-time wind speed, wind direction, temperature, relative humidity, precipitation, and solar radiation data. All measurements taken at this Site are taken at a height of ten (10) meters above grade.



*Figure 2-1. Ambient Air Monitoring Station Locations*



Figure 2-2. Tait Road Station Siting



Figure 2-3. Gallinger Road Station Siting



*Figure 2-4. Tait Road Station Detailed View*





Figure 2-5. Northwest Station Siting

## Section 3. ANALYTICAL METHODS

### 3.1 TOTAL SUSPENDED PARTICULATE MATTER (TSP) AND METALS

24-hour average TSP and metal samples were collected as specified in the Operations Manual. Samples were collected every sixth (6<sup>th</sup>) day, as per the U.S. EPA Sampling Schedule (United States Environmental Protection Agency, 2020).

TSP and metal samples were collected using High Volume (Hi-Vol) Samplers with a brush motor and controlled mass flow. The samples are collected on an 8-inch by 10-inch Hi-Vol quartz filter.

TSP concentrations are determined using the standard gravimetric reference method described in Compendium Method IO-3.1 of the U.S. EPA's "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air" (1999).

The lowest detectable mass of TSP on the filter is 2,300 micrograms ( $\mu\text{g}$ ). A valid 24-hour sample volume for the Hi-Vol Sampler ranges between 1,468 and 1,794 cubic metres ( $\text{m}^3$ ). As such, the method detection limit (MDL) for TSP ranges between 1.28 and 1.57 micrograms per cubic metre ( $\mu\text{g}/\text{m}^3$ ).

Metal concentrations are determined using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP/AES) based on Compendium Method IO-3.5 (U.S. EPA, 1999). The metals and metalloids (elements with both metallic and non-metallic properties) analyzed include arsenic (As), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), manganese (Mn), nickel (Ni), selenium (Se), vanadium (V), and zinc (Zn).

The total volume of each sample is calculated using methods recommended by the sampler manufacturer. These calculations account for ambient temperature and pressure, sampler flow rate, and individual monitor specifications. The calculations are not corrected for humidity.

### 3.2 RESPIRABLE PARTICULATE MATTER ( $\text{PM}_{2.5}$ )

Respirable particulate samples are collected at the same time as TSP samples (every sixth day, as per the EPA Sampling Schedule).

Samples are collected using PQ200 Samplers over a 24-hour period to align with the averaging time for the Canadian Ambient Air Quality Standard (CAAQS). The samples are collected on a 47-millimetre (mm) diameter polytetrafluoroethylene (PTFE; Teflon) filter.

$\text{PM}_{2.5}$  concentrations are determined using the standard gravimetric reference method outlined in the U.S. EPA's "Quality Assurance Guidance Document 2.12: Monitoring  $\text{PM}_{2.5}$  in Ambient Air Using Designated Reference or Class I Equivalent Methods" (U.S. EPA, 2016).

The lowest detectable mass of  $\text{PM}_{2.5}$  on the Teflon filter is 15 micrograms ( $\mu\text{g}$ ). Based on a valid 24-hour sample volume ranging between 21.6 and 26.4  $\text{m}^3$ , the MDL for  $\text{PM}_{2.5}$  ranges between 0.9 and 16.7  $\mu\text{g}/\text{m}^3$ .

Total sample volume is recorded mechanically by the PQ200 Samplers.

### 3.3 TOTAL DUSTFALL

Total dustfall deposition samples are collected over a 30-day period using standard plastic dustfall sampler jars with four (4) millimetre (mm) polyethylene liners. The dustfall jars are treated with an algaecide to prevent algal growth during the summer and alcohol to prevent freezing during the winter.

The sample jars measure roughly 15.4-centimetres (cm) in diameter by 30.5 cm in height.

The water soluble and insoluble portions of dustfall are determined by gravimetric analysis using the method described in Section G of British Columbia Ministry of the Environment's "Air Constituents – Inorganic" (British Columbia Ministry of the Environment, 2020).

Metal concentrations within the dustfall samples are determined using Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) in accordance with U.S. EPA's Method 6020A (SW-846) (U.S. EPA, 1998). The metals and metalloids sampled include aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), bismuth (Bi), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), phosphorus (P), potassium (K), selenium (Se), silicon (Si), silver (Ag), sodium (Na), strontium (Sr), thallium (Tl), tin (Sn), titanium (Ti), uranium (U), vanadium (V), and zinc (Z).

The analysis method employed for total dustfall has an MDL of 0.3 grams per square metre per 30 days ( $\text{g}/\text{m}^2/30$  days).

### 3.4 PASSIVE SAMPLING FOR SO<sub>2</sub> AND NO<sub>2</sub>

Sulphur dioxide (SO<sub>2</sub>) and nitrogen dioxide (NO<sub>2</sub>) concentrations are monitored by passive monitoring devices over a 30-day exposure period. As such, sample uptake depends on temperature, relative humidity, and wind speed. To account for this, analytical results are adjusted based on the monthly averages for these meteorological parameters throughout the exposure period. The required meteorological data are obtained by Maxxam Analytics from the Environment and Climate Change Canada website for the Fort Frances meteorological station (Climate ID 6022474) with each sample submission.

Since there is currently no MECP guidance on 30-day passive sampling of NO<sub>2</sub> or SO<sub>2</sub>, sampling is performed using the methodology developed, approved, and validated by Alberta Environment with the support of the Alberta Research Council, the Clean Air Strategic Alliance of Alberta, and the National Research Council of Canada (Bari, Curran, & Kindzierski, 2015).

For both SO<sub>2</sub> and NO<sub>2</sub>, the analytical MDL is on the order of 0.1 parts per billion by volume (ppbv). Validation tests conducted in Alberta show that results from passive sampling are typically within ten percent (10%) of those obtained from sampling with continuous analyzers for 30-day exposure periods (2015).

Since there are no MECP guidelines for monthly concentrations of SO<sub>2</sub> or NO<sub>2</sub> obtained from passive sampling, this data is used solely for screening purposes.

For NO<sub>2</sub>, the monthly results are compared against Ontario's 24-hour AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day (720-hour) average (78 µg/m<sup>3</sup>) using the methodology outlined in the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (Ontario Ministry of the Environment, Conservation and Parks, 2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta's 30-day Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).

## Section 4. MONITORING METHODS

### 4.1 HI-VOL AND PQ200 SAMPLERS

Stations are visited every six days to take samples for TSP, metals, and PM<sub>2.5</sub>. The exposed filter is recovered, and a pre-weighed filter is installed for the subsequent sample run.

Additional visits are made to the stations, as required, to resolve instrumentation issues, perform flow calibration checks, and preventative/proactive maintenance. All calibrations are performed in accordance with manufacturer specifications.

Flow calibrations are performed at least once per quarter by New Gold staff on the Hi-Vol TE-5170 Samplers using a Tisch Delta Calibration kit. The flow is calibrated to a flow rate of 1,133 litres per minute (LPM), which produces a sample volume of 1,632 m<sup>3</sup> in a 24-hour period.

For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly and are only calibrated if they don't pass the verification using an electronic BGI Flow Calibrator. The flow is calibrated to a flow rate of 16.7 LPM, which produces a sample volume of 24 m<sup>3</sup> in a 24-hour period.

**Table 4-1** below outlines the dates on which calibrations were performed on the Hi-Vol and PQ200 Samplers in this quarter. Calibration sheets for the samplers can be found in **Appendix D**. For PQ200 samplers, flow rate verification, temperature and pressure verification is performed monthly.

**Table 4-1. Sampler Calibration Dates**

| Station                        | Hi-Vol Sampler Calibration Date | PQ200 Sampler Calibration Date |
|--------------------------------|---------------------------------|--------------------------------|
| Tait Road (South Station)      | 17 <sup>th</sup> April 2023     |                                |
| Gallinger Road (North Station) | 5 <sup>th</sup> May 2023        | 30 <sup>th</sup> April 2023    |
| Northwest Station (TMA)        | 29 <sup>th</sup> May 2023       | 15 <sup>th</sup> April 2023    |

### 4.2 DUSTFALL SAMPLERS

The dustfall samplers containing algacide are changed monthly to correspond with the 30-day exposure period.

Dustfall jars are provided by the laboratory with screw-on lids to prevent sample loss during transport.

### 4.3 PASSIVE SAMPLERS

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.

### **4.3 PASSIVE SAMPLERS**

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.

Filters are kept in cassettes inside Ziploc bags until deployment to prevent premature exposure. After the sample is collected, the filter is placed back into the cassette and back into the Ziploc bag for shipment to the lab.

## Section 5. SAMPLING ISSUES

### 5.1 PERFORMANCE AND SITE AUDITS

There was one MECP audits in Q2.

### 5.2 EQUIPMENT AND SAMPLING ISSUES

There were eleven (11) samples invalidated in this quarter, as described in the table below and in **Appendix E**.

*Table 5-1. Q2 Invalidated Samples*

| Sample Date   | Station   | Contaminant | Reasoning   |
|---|-----------|-------------|---|
| April 6 <sup>th</sup> , 2023                          | Tait Road | TSP         | Sample volume was above the maximum volume limit              |
| April 12 <sup>th</sup> , 2023                         | Tait Road | TSP         | Sample volume was above the maximum volume limit              |
| April 12 <sup>th</sup> , 2023                         | North     | TSP         | Sample volume was below the lower volume limit                |
| April 24 <sup>th</sup> , 2023                         | North     | TSP         | Sample volume was below the lower volume limit                |
| May 6 <sup>th</sup> , 2023                            | Tait Road | TSP         | Sample volume was below the lower volume limit                |
| May 12 <sup>th</sup> , 2023                           | North     | TSP         | Sample volume was below the lower volume limit                |
| May 18 <sup>th</sup> , 2023                           | North     | TSP         | Sample volume was below the lower volume limit                |
| May 24 <sup>th</sup> , 2023                           | North     | TSP         | Sample volume was below the lower volume limit                |
| June 05 <sup>th</sup> , 2023                          | North     | TSP         | Sample volume was below the lower volume limit                |
| April 6 <sup>th</sup> – April 12 <sup>th</sup> , 2023 | Northwest | PM2.5       | Sampler did not record sample volume as it was out for repair |

## Section 6. SAMPLING RESULTS

Sampling results for Q2 are presented in **Section 6.1** and **Appendix A-1** for TSP and metals, **Section 6.2** and **Appendix A-1** for PM<sub>2.5</sub>, **Section 6.3** and **Appendices A-2** and **A-3** for total dust fall, and **Section 6.4** and **Appendix A-4** for passive SO<sub>2</sub> and NO<sub>2</sub>.

In performing statistical analyses, as per the Operations Manual, a value of half the method detection limit is substituted for concentrations that are reported below the method detection limit. Laboratory Certificates of Analysis for all samples collected in Q2 are provided in **Appendix C**.

### RAINY RIVER MINE

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For comparative purposes, the Ontario AAQC and Canadian AAQS values are presented, where available. It is important to note that the Ontario AAQCs are equivalent to the standards prescribed by *Ontario Regulation 419/05: Air Pollution – Local Air Quality* (Government of Ontario, 2019).

Q2 presented fifteen (15) possible sampling days between April 1, 2023, and June 30, 2023, for the 6-day sampling schedule. Summaries of the analyses for TSP, metals, and PM<sub>2.5</sub> are presented in **Table 6-1**, **Table 6-2**, and **Table 6-3**, respectively.

Summaries of the analyses for total dustfall (incl. metals) and passive SO<sub>2</sub> and NO<sub>2</sub> are presented in **Table 6-4**, **Table 6-5**, **Table 6-6**, and **Table 6-7**.

## 6.1 TSP AND METALS

In this quarter, the Gallinger Road Station collected nine (9) valid samples (60% valid data). The Northwest Station collected fifteen (15) valid samples (100% valid data), while the Tait Road Station collected twelve (12) valid samples (80% valid). Since the data for Gallinger and Tait Road stations are below the 90% valid data threshold, statistical analyses for TSP and metals are computed using all data, including invalid samples.

For this quarter, the arithmetic mean of TSP concentration was 40.44 µg/m<sup>3</sup> at the Tait Road Station, 25.36 µg/m<sup>3</sup> at the Gallinger Road Station, and 55.87 µg/m<sup>3</sup> at the Northwest Station. Geometric means for the three stations were 31.80 µg/m<sup>3</sup>, 21.47 µg/m<sup>3</sup>, and 41.56 µg/m<sup>3</sup>, respectively.

The maximum 24-hour concentration for TSP was 123.83 µg/m<sup>3</sup> at the Tait Road Station on April 30<sup>th</sup>, 76.59 µg/m<sup>3</sup> at the Gallinger Road Station on May 18<sup>th</sup>, and 158.89 µg/m<sup>3</sup> at the Northwest Station on April 18<sup>th</sup>, 2023.

Laboratory data are provided as the mass of contaminant on the filter, in micrograms. This is divided by the total sample volume measured by the Hi-Vol Sampler to determine the concentration of the contaminant in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was one (1) sample at Tait Road that exceeded the TSP AAQC (120 µg/m<sup>3</sup>) and two (2) samples at Northwest Station that exceeded the TSP AAQC (120 µg/m<sup>3</sup>).

Data is summarized for TSP and metals in **Table 6-1** and **Table 6-2**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1**, **Figure 6-1**, and **Figure 6-2**.

**Table 6-1. TSP Summary Statistics. Concentrations presented in µg/m<sup>3</sup>.**

|                         | Tait Road Station | Gallinger Road Station | Northwest Station |
|-------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples | 12                | 9                      | 15                |
| % Valid Data            | 80%               | 60%                    | 100%              |
| Arithmetic Mean         | 40.44             | 25.36                  | 55.87             |



|                             | Tait Road Station | Gallinger Road Station | Northwest Station |
|-----------------------------|-------------------|------------------------|-------------------|
| Geometric Mean              | 31.80             | 21.47                  | 41.56             |
| 24-Hour Maximum             | 123.83            | 76.59                  | 158.89            |
| 24-Hour Minimum             | 5.66              | 4.42                   | 6.35              |
| April Maximum               | 123.83            | 28.76                  | 158.89            |
| May Maximum                 | 56.12             | 76.59                  | 121.51            |
| June Maximum                | 56.71             | 34.40                  | 80.17             |
| 90 <sup>th</sup> Percentile | 65.34             | 34.36                  | 115.54            |
| 95 <sup>th</sup> Percentile | 83.11             | 47.06                  | 132.73            |
| TSP AAQC                    | 120               | 120                    | 120               |
| Samples > TSP AAQC          | 1                 | 0                      | 2                 |
| Samples > Metal AAQC        |                   |                        |                   |

**Table 6-2. Maximum Concentrations of Metals. Concentrations presented in  $\mu\text{g}/\text{m}^3$ .**

| Metal | 24-Hour AAQC | Tait Road Station     |                  | Gallinger Road Station |                  | Northwest Station     |                  |
|-------|--------------|-----------------------|------------------|------------------------|------------------|-----------------------|------------------|
|       |              | Maximum Concentration | Fraction of AAQC | Maximum Concentration  | Fraction of AAQC | Maximum Concentration | Fraction of AAQC |
| As    | 0.3          | 1.87E-03              | 0.62%            | 1.22E-03               | 0.41%            | 9.93E-04              | 0.33%            |
| Cd    | 0.025        | 6.86E-04              | 2.74%            | 8.13E-04               | 3.25%            | 6.62E-04              | 2.65%            |
| Cr    | 0.5          | 7.97E-03              | 1.59%            | 2.03E-03               | 0.41%            | 3.59E-02              | 7.18%            |
| Co    | 0.1          | 1.47E-03              | 1.47%            | 8.13E-04               | 0.81%            | 2.29E-03              | 2.29%            |
| Cu    | 50           | 1.51E-01              | 0.30%            | 1.26E-01               | 0.25%            | 2.66E-01              | 0.53%            |
| Fe    | 4            | 4.07E+00              | 101.78%          | 7.90E-01               | 19.76%           | 5.10E+00              | 127.62%          |
| Pb    | 0.5          | 5.39E-03              | 1.08%            | 3.43E-03               | 0.69%            | 2.29E-03              | 0.46%            |
| Mn    | 0.4          | 1.24E-01              | 31.10%           | 3.19E-02               | 7.97%            | 1.24E-01              | 31.00%           |
| Ni    | 0.2          | 6.22E-03              | 3.11%            | 2.29E-03               | 1.14%            | 1.61E-02              | 8.04%            |
| Se    | 10           | 3.43E-03              | 0.03%            | 4.07E-03               | 0.04%            | 3.31E-03              | 0.03%            |
| V     | 2            | 7.63E-03              | 0.38%            | 2.03E-03               | 0.10%            | 1.07E-02              | 0.54%            |
| Zn    | 120          | 5.99E-02              | 0.05%            | 3.55E-02               | 0.03%            | 4.21E-02              | 0.04%            |

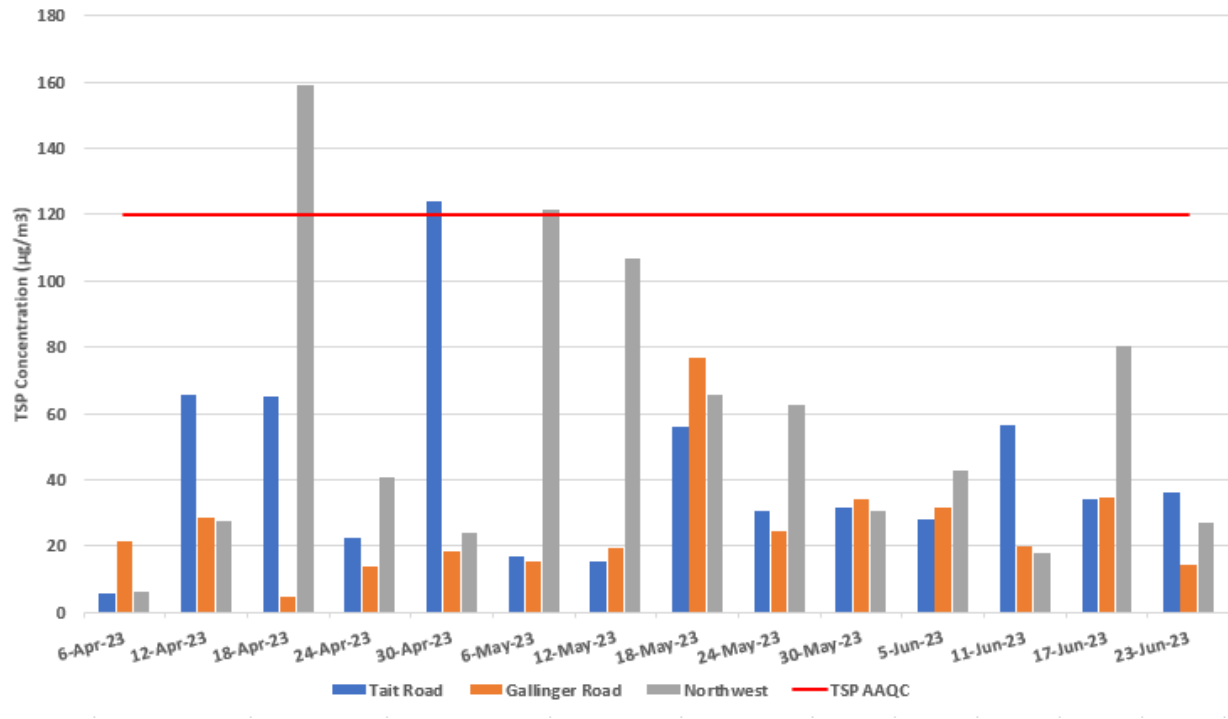
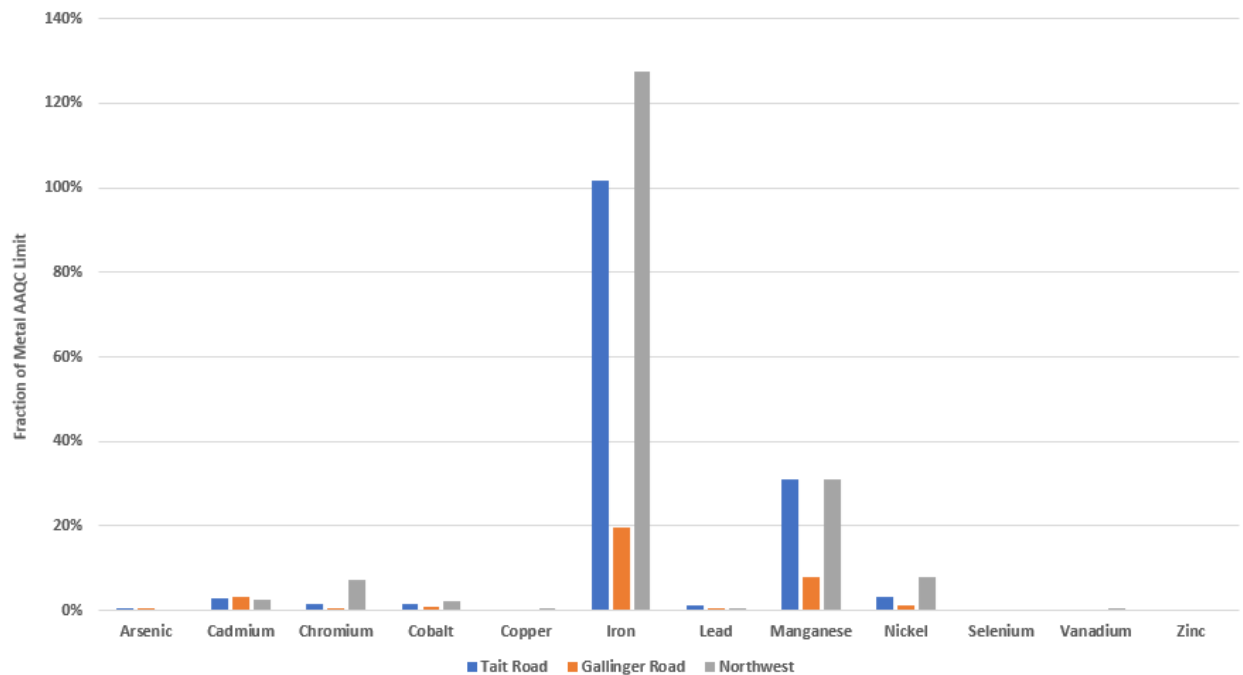


Figure 6-1. TSP Sampling Results



**Figure 6-2. Max Metal Sampling Result as a Fraction of Metal AAQC**

## 6.2 PM<sub>2.5</sub>

In this quarter, the Tait Road Station and Gallinger Road Station collected fifteen (15) valid samples, which represents 100% valid data. Northwest Station collected thirteen (13) valid samples which represents 87% valid data.

For this quarter, the arithmetic mean for the PM<sub>2.5</sub> concentrations were 8.47 µg/m<sup>3</sup>, 7.76 µg/m<sup>3</sup>, and 9.31 µg/m<sup>3</sup> for the Tait Road Station, Gallinger Road Station, and Northwest Station, respectively.

The maximum 24-hour concentrations for PM<sub>2.5</sub> were 38.17 µg/m<sup>3</sup> at the Tait Road Station on May 18<sup>th</sup>, 36.47 µg/m<sup>3</sup> at the Gallinger Road Station on May 18<sup>th</sup>, and 35.02 µg/m<sup>3</sup> at the Northwest Station on May 18<sup>th</sup>, 2023.

Laboratory data is provided as the mass of PM<sub>2.5</sub> on the filter, in micrograms. This value is divided by the total sample volume measured by the PQ200 Sampler to determine the concentration of PM<sub>2.5</sub> in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there were three samples that exceeded the PM<sub>2.5</sub> AAQC or CAAQS (27 µg/m<sup>3</sup>).

Data is summarized for PM<sub>2.5</sub> in **Table 6-3**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1** and **Figure 6-3**.

**Table 6-3. PM<sub>2.5</sub> Summary Statistics. Concentrations presented in µg/m<sup>3</sup>.**

|                                  | <b>Tait Road Station</b> | <b>Gallinger Road Station</b> | <b>Northwest Station</b> |
|----------------------------------|--------------------------|-------------------------------|--------------------------|
| Number of Valid Samples          | 15                       | 15                            | 13                       |
| % Valid Data                     | 100%                     | 100%                          | 87%                      |
| Arithmetic Mean                  | 8.47                     | 7.76                          | 9.31                     |
| Geometric Mean                   | 5.70                     | 5.22                          | 6.80                     |
| 24-Hour Maximum                  | 38.17                    | 36.47                         | 35.02                    |
| 24-Hour Minimum                  | 1.33                     | 1.62                          | 2.20                     |
| April Maximum                    | 6.88                     | 7.49                          | 3.99                     |
| May Maximum                      | 38.17                    | 36.47                         | 35.02                    |
| June Maximum                     | 19.06                    | 15.72                         | 19.35                    |
| 90 <sup>th</sup> Percentile      | 17.12                    | 15.00                         | 18.22                    |
| 95 <sup>th</sup> Percentile      | 24.79                    | 21.94                         | 25.62                    |
| PM <sub>2.5</sub> AAQC           | 27                       | 27                            | 27                       |
| Samples > PM <sub>2.5</sub> AAQC | 1                        | 1                             | 1                        |
| MDL (µg)                         | 0                        | 0                             | 0                        |
| Samples < MDL                    | 0                        | 0                             | 0                        |

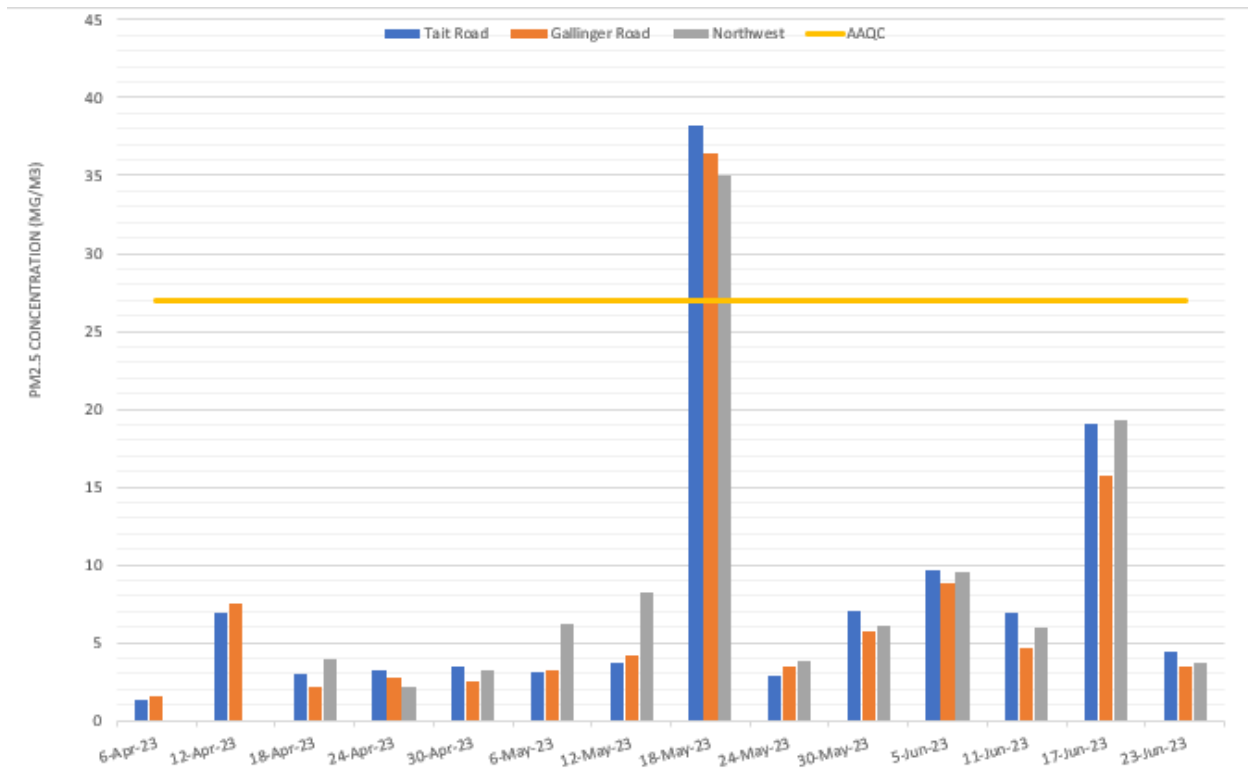


Figure 6-3. PM<sub>2.5</sub> Sampling Results

### 6.3 TOTAL DUSTFALL

New Gold operates three (3) ambient monitoring stations that measure 30-day dustfall levels: Tait Road, Gallinger Road, and Northwest.

In this quarter, the Tait Road, Gallinger Road, and the Northwest stations collected three (3) valid samples (100% valid data).

Laboratory data is provided as the mass of dustfall on the filter per square decimeter per day, in milligrams per decimeter square per day. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration} \left( \frac{g}{m^2 \cdot 30 \text{ days}} \right) = \text{Lab Concentration} \left( \frac{mg}{dm^2 \cdot \text{day}} \right) \times \frac{1 g}{1000 mg} \times \frac{100 dm^2}{1 m^2} \times \frac{30 \text{ days}}{30 \text{ days}}$$

During the laboratory analysis, total dustfall is speciated into soluble and insoluble portions, as well as fixed and volatile portions. The fixed portion of total dustfall is the portion of the total dustfall that remains after the sample is ignited at 550°C. The mass of the sample lost during ignition represents the volatile portion. In the summer months (i.e., Q2 and Q3), the volatile portion of the dustfall is largely made up of large, organic particles (e.g., leaves, twigs, bugs, etc.) that are deposited and retained in the sample. As a result, the total dustfall may overestimate the actual dustfall mass in the sample. For this reason, the analysis of dustfall shows both fixed

dustfall and total dustfall. The total dustfall versus fixed dustfall masses are compared in **Figure 6-5** and **Figure 6-6**.

In this quarter, there was one sample that exceeded the total dustfall 30-day Ontario AAQC (7 g/m<sup>2</sup>/30 days).

Data is summarized for total dustfall in **Table 6-4**. Sample data from all runs and further statistical analyses are presented in **Appendix A-2**.

**Table 6-4. Total Dustfall Summary Statistics.**  
Concentrations presented in g/m<sup>2</sup>/30 days.

|                         | Tait Road Station | Gallinger Road Station | Northwest Station |
|-------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples | 3                 | 3                      | 3                 |
| % Valid Data            | 100%              | 100%                   | 100%              |
| Arithmetic Mean         | 4.54              | 7.02                   | 2.68              |
| Monthly Maximum         | 4.83              | 13.83                  | 4.47              |
| Dustfall AAQC           | 7                 | 7                      | 7                 |
| Samples > Dustfall AAQC | 0                 | 1                      | 0                 |
| Samples < MDL           | 0                 | 0                      | 0                 |

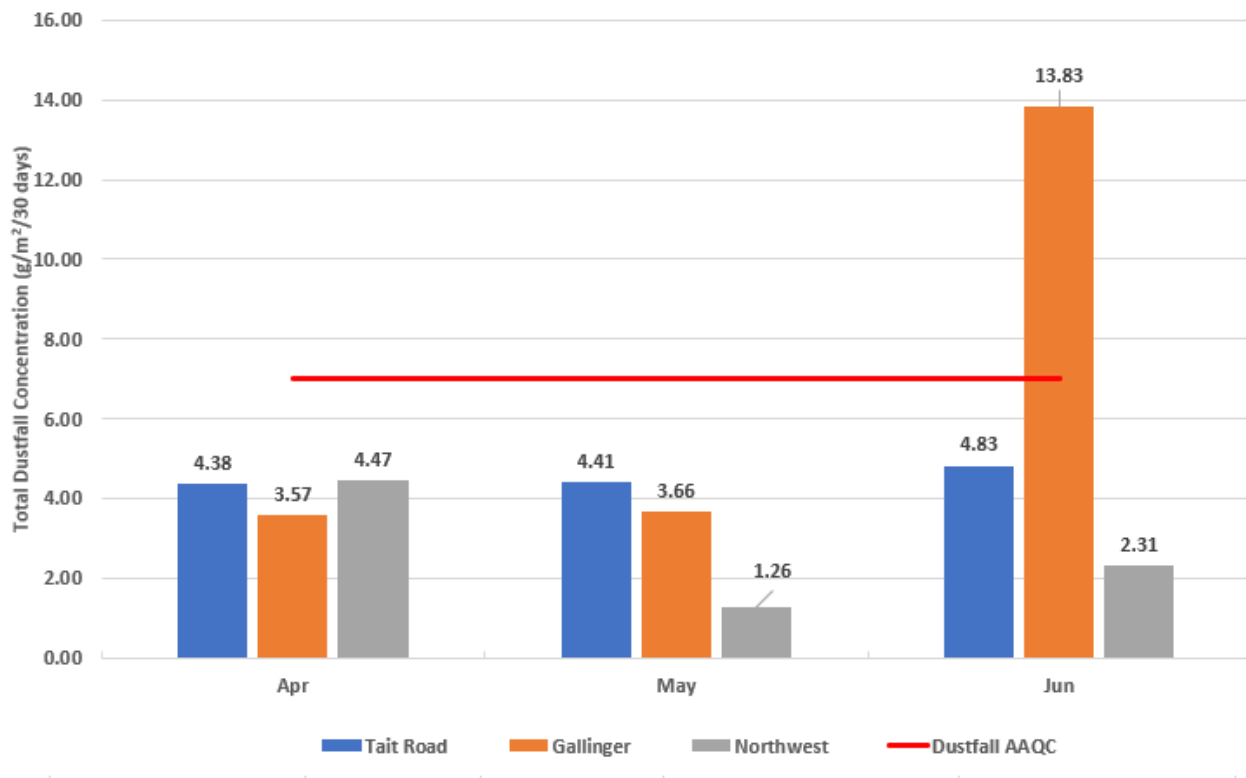


Figure 6-3. Total Dustfall Sampling Results at POI Stations

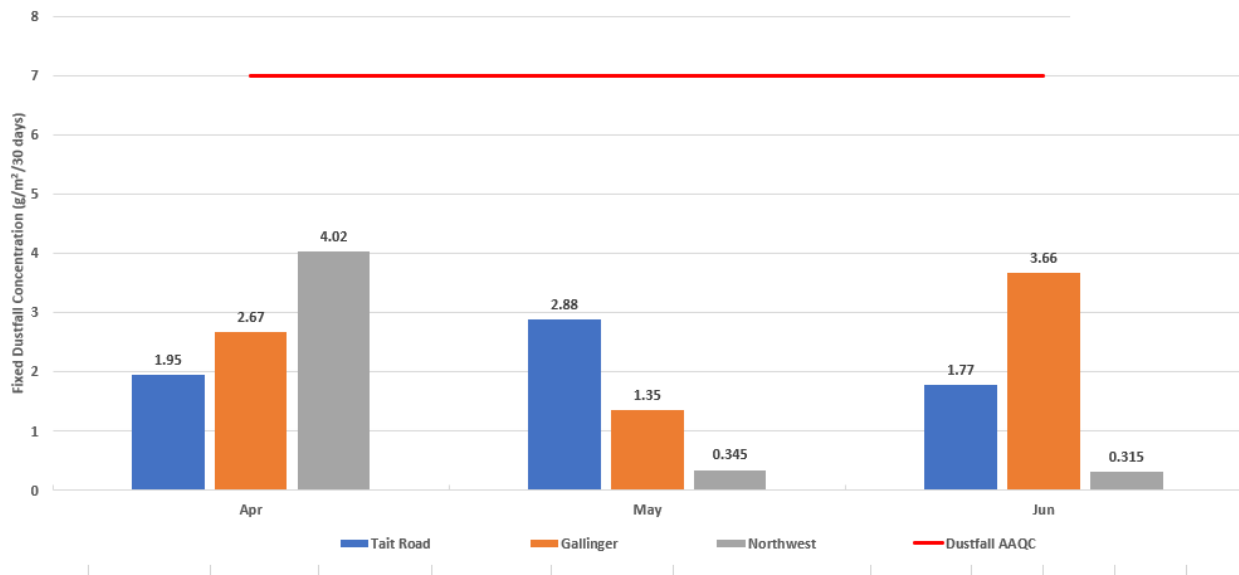
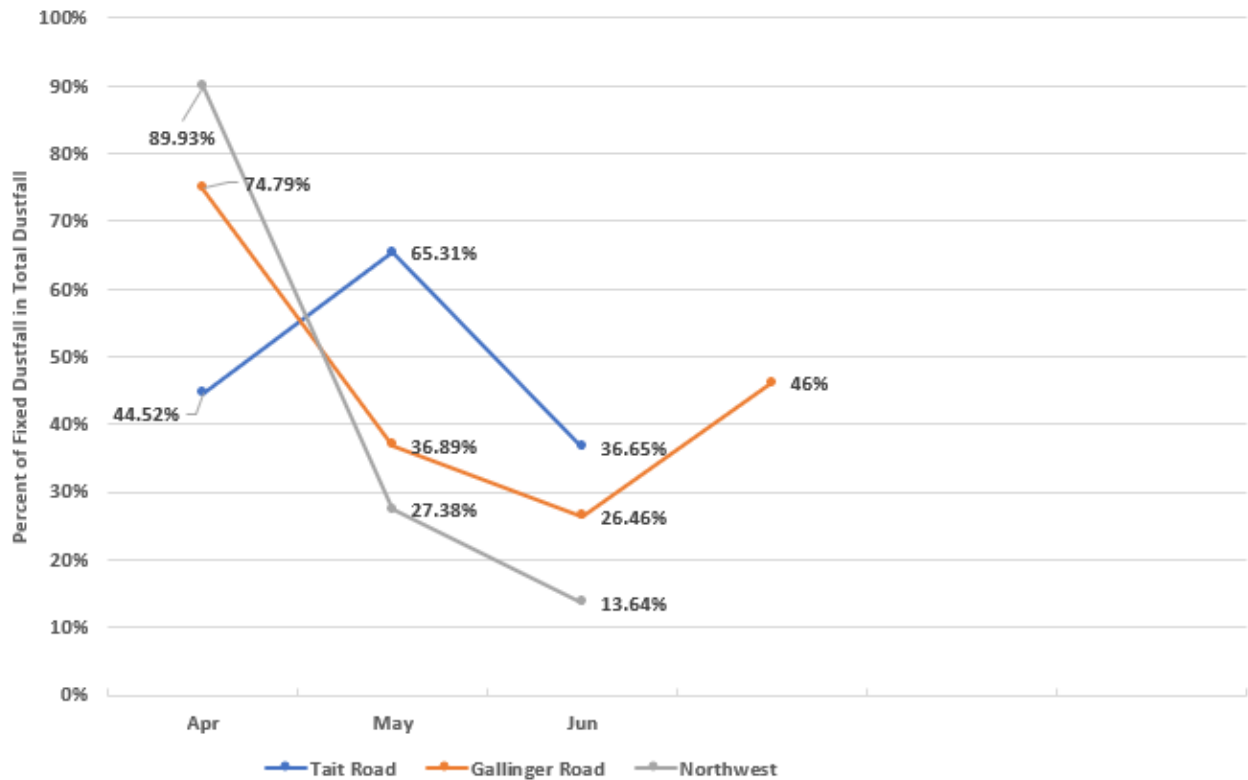
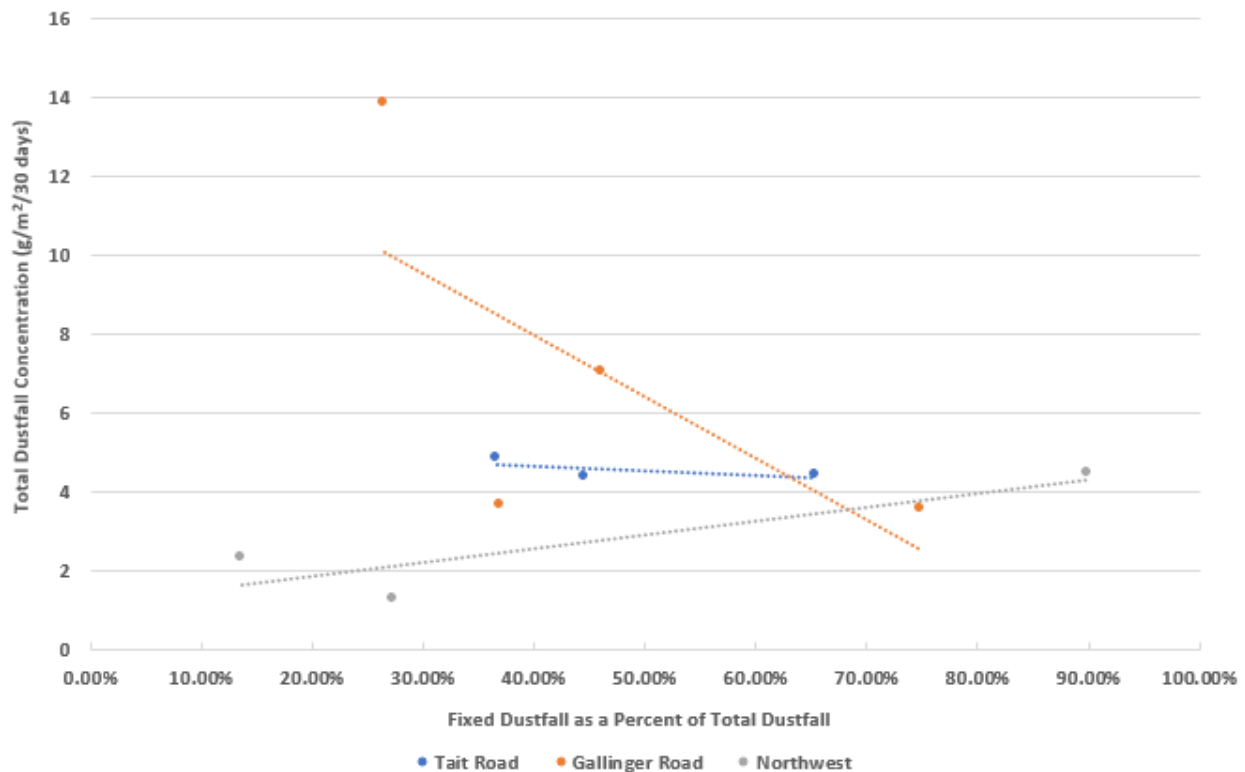


Figure 6-4. Fixed Dustfall Sampling Results at POI Stations



**Figure 6-5. Percent of Fixed Dustfall in Total Dustfall**





**Figure 6-6. Fixed Dustfall Fraction vs. Total Dustfall Concentration**

## 6.4 PASSIVE SO<sub>2</sub> AND NO<sub>2</sub>

The Tait Road and Gallinger Road Stations collected three (3) valid samples out of a possible three (3) sampling opportunities (100% valid data) in this quarter.

There are no MECP standards, guidelines, or Ontario AAQCs for SO<sub>2</sub> or NO<sub>2</sub> for a 30-day averaging period. Instead, the 30-day measured average SO<sub>2</sub> or NO<sub>2</sub> concentrations allow for future analysis of trends in the ambient concentrations, identification of notable increases, and comparison with dispersion modelling results.

For NO<sub>2</sub>, the monthly results are compared against Ontario's 24-hour NO<sub>2</sub> AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day average (78 µg/m<sup>3</sup>) using the methodology outlined in Table 7-1 of the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta's 30-day SO<sub>2</sub> Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).

For this quarter, the arithmetic mean SO<sub>2</sub> concentration was 0.17 µg/m<sup>3</sup> at the Tait Road and 0.17 µg/m<sup>3</sup> at the Gallinger Road Stations. The arithmetic mean NO<sub>2</sub> concentrations were 0.88 µg/m<sup>3</sup> and 0.34 µg/m<sup>3</sup> at the Tait Road and Gallinger Road Stations, respectively.

The maximum monthly concentrations of SO<sub>2</sub> were 0.26 µg/m<sup>3</sup> for the Tait Road in month of June and Gallinger Road stations in month of April. The maximum monthly concentration of NO<sub>2</sub> was 1.32 µg/m<sup>3</sup> at the Tait Road Station in June and 0.56 µg/m<sup>3</sup> at the Gallinger Road Station in May.

Laboratory data is provided as the concentration of the contaminant in the sample, in parts per billion by volume. This value is then converted to the appropriate units for reporting using the equation seen below:

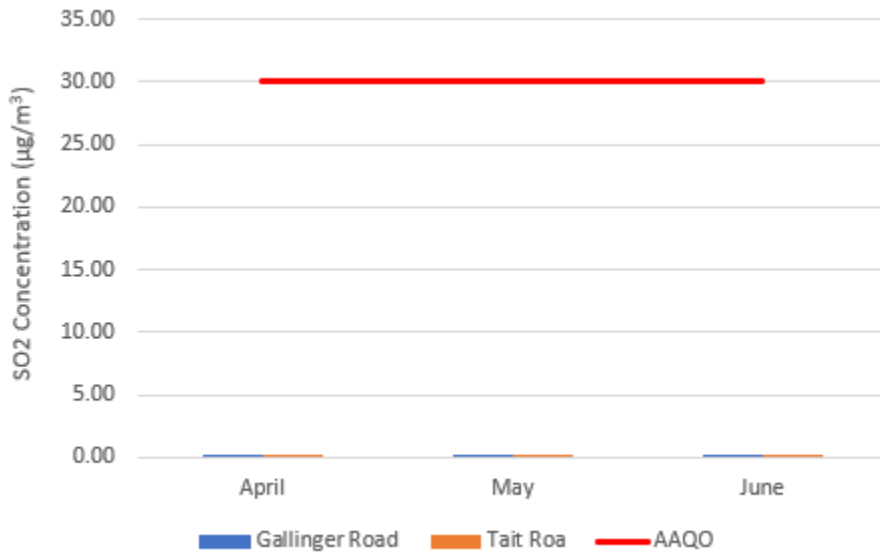
$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \text{Lab Concentration (ppbv)} \times \frac{\text{Molecular Weight}}{\text{Molar Volume}}$$

In this quarter, there were no samples that exceeded the converted 24-hour NO<sub>2</sub> Ontario AAQC (78 µg/m<sup>3</sup>), and no samples that exceeded the 30-day Alberta SO<sub>2</sub> AAQO (30 µg/m<sup>3</sup>).

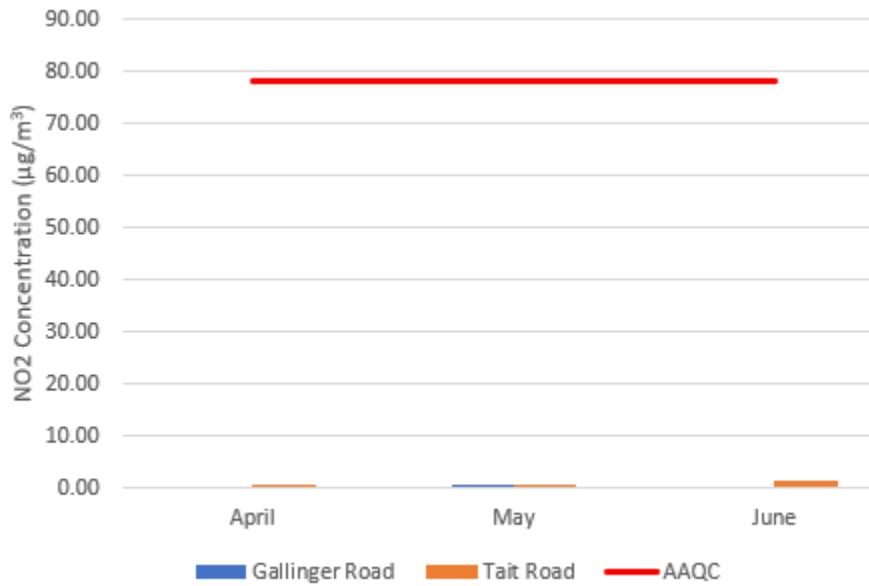
Data is summarized for SO<sub>2</sub> and NO<sub>2</sub> in **Table 6-7**. Sample data from all runs and further statistical analyses are presented in **Appendix A-4**.

**Table 6-5: Summary Statistics for SO<sub>2</sub> and NO<sub>2</sub>.  
Concentrations presented in µg/m<sup>3</sup>.**

|                         | Tait Road Station |                 | Gallinger Road Station |                 |  |
|-------------------------|-------------------|-----------------|------------------------|-----------------|--|
|                         | SO <sub>2</sub>   | NO <sub>2</sub> | SO <sub>2</sub>        | NO <sub>2</sub> |  |
| Number of Valid Samples | 3                 | 3               | 3                      | 3               |  |
| % Valid Data            | 100%              | 100%            | 100%                   | 100%            |  |
| Arithmetic Mean         | 0.17              | 0.88            | 0.17                   | 0.34            |  |
| Monthly Maximum         | 0.26              | 1.32            | 0.26                   | 0.56            |  |
| Limit                   | 30                | 78              | 30                     | 78              |  |
| Samples > Limit         | 0                 | 0               | 0                      | 0               |  |
| MDL                     | 0.26              | 0.19            | 0.26                   | 0.19            |  |
| Samples < MDL           | 2                 | 0               | 2                      | 1               |  |



**Figure 6-5. SO<sub>2</sub> Monitoring Results**



**Figure 6-8. NO<sub>2</sub> Monitoring Results**

**Section 7. MITIGATION MEASURES**

No mitigation measures have been implemented at this time.

## **Section 8. CONCLUSION**

The Rainy River Mine Ambient Air Quality Monitoring Program was conducted in the Second quarter of 2023 in accordance with the Site's Amended Environmental Compliance Approval (ECA) Number 0412-A2LR4V and the MECP Program Approval Letter.

Samples were taken every sixth (6<sup>th</sup>) day for total suspended particulate matter (TSP), metals, and respirable particulate matter (PM<sub>2.5</sub>). Samples were taken monthly for total dustfall, sulphur dioxide (SO<sub>2</sub>), and nitrogen dioxide (NO<sub>2</sub>).

These samples were sent out for analysis in accordance with the methods prescribed in the Operations Manual.

There were two (2) exceedances of the TSP limit on April 18<sup>th</sup>, 2023, and May 6<sup>th</sup>, 2023, at the Gallinger Road Station. There was one (1) exceedance of the TSP limit on April 30, 2023 at the Tait Road Station.

There were three (3) exceedances of the PM<sub>2.5</sub> limit on May 18, 2023 at Tait Road, Gallinger Road and Northwest Station.

There was one (1) exceedance of the total dust fall limit in June 2023 at the Gallinger Road Station.

## Section 9. REFERENCES

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## Section 10. CLOSING

The *Rainy River Mine Ambient Air Quality Monitoring Program Second Quarter 2023 Report* was prepared by New Gold Inc. The quality of information, conclusions, and estimates contained herein are based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this document.

If you require further information regarding the above, or the Mine in general, please contact the undersigned at 1(807) 234-8170.

Sincerely,

New Gold Inc.

Rainy River Mine

Prepared By:



Garnet Cornell

Environment Manager



# **APPENDIX A: SAMPLING RESULTS**

Appendix A-1 TSP, Metals, and PM<sub>2.5</sub> Sampling Results

Appendix A-2 Total Dustfall Sampling Results

Appendix A-3 SO<sub>2</sub> and NO<sub>2</sub> Passive Sampling Results

**APPENDIX A-1:**  
**TSP, METALS, AND PM<sub>2.5</sub> SAMPLING RESULTS**



## APPENDIX A-2: TOTAL DUSTFALL SAMPLING RESULTS

| <b>Tait Road Station Monitoring Results</b><br>(concentrations expressed in g/m <sup>2</sup> /30 days) |                   |                    |                  |                |                |                   |
|--|-------------------|--------------------|------------------|----------------|----------------|-------------------|
| Month  | No. Exposure Days | Insoluble Dustfall | Soluble Dustfall | Total Dustfall | Fixed Dustfall | Volatile Dustfall |
| January  | 31                | 0.69               | 0.15             | 0.75           | 0.6            | 0.15              |
| February   | 28                | 1.14               | 0.36             | 1.5            | 1.17           | 0.165             |
| March  | 31                | 1.74               | 0.45             | 2.19           | 1.77           | 0.45              |
| No. Valid Samples  |                   |                    |                  | 3              | -              | -                 |
| % Valid Data   |                   |                    |                  | 100%           | -              | -                 |
| Arithmetic Mean  |                   |                    |                  | 1.48           | 1.18           | 0.255             |
| Max Monthly Concentration  |                   |                    |                  | 2.19           | 1.77           | 0.45              |
| Min Monthly Concentration  |                   |                    |                  | 0.75           | 0.6            | 0.15              |
| Comparison Limit   |                   |                    |                  | 7              | -              | -                 |
| No. > Limit  |                   |                    |                  | 0              | -              | -                 |
| MDL  |                   |                    |                  | 0.3            | -              | -                 |
| No. < MDL  |                   |                    |                  | 0              | -              | -                 |

| <b>Gallinger Road Station Monitoring Results</b><br>(concentrations expressed in g/m <sup>2</sup> /30 days) |                   |                    |                  |                |                |                   |
|---|-------------------|--------------------|------------------|----------------|----------------|-------------------|
| Month   | No. Exposure Days | Insoluble Dustfall | Soluble Dustfall | Total Dustfall | Fixed Dustfall | Volatile Dustfall |
| January   | 31                | 0.3                | 0.3              | 1.29           | 1.32           | 0.15              |
| February  | 28                | 0.96               | 0.33             | 1.2            | 0.99           | 0.165             |
| March   | 31                | 2.19               | 0.6              | 2.79           | 1.95           | 0.84              |
| No. Valid Samples   |                   |                    |                  | 3              | -              | -                 |
| % Valid Data  |                   |                    |                  | 100%           | -              | -                 |
| Arithmetic Mean   |                   |                    |                  | 1.76           | 1.42           | 0.385             |
| Max Monthly Concentration   |                   |                    |                  | 2.79           | 1.95           | 0.84              |
| Min Monthly Concentration   |                   |                    |                  | 1.2            | 0.99           | 0.15              |
| Comparison Limit  |                   |                    |                  | 7              | -              | -                 |
| No. > Limit   |                   |                    |                  | 0              | -              | -                 |
| MDL   |                   |                    |                  | 0.3            | -              | -                 |
| No. < MDL   |                   |                    |                  | 0              | -              | -                 |

| <b>Northwest Station Monitoring Results</b><br>(concentrations expressed in g/m <sup>2</sup> /30 days) |                          |                           |                         |                       |                       |                          |
|--|--------------------------|---------------------------|-------------------------|-----------------------|-----------------------|--------------------------|
| <b>Month</b>   | <b>No. Exposure Days</b> | <b>Insoluble Dustfall</b> | <b>Soluble Dustfall</b> | <b>Total Dustfall</b> | <b>Fixed Dustfall</b> | <b>Volatile Dustfall</b> |
| January  | 31                       | 0.3                       | 0.3                     | 0.3                   | 0.15                  | 0.15                     |
| February   | 28                       | 0.57                      | 0.33                    | 0.75                  | 0.54                  | 0.165                    |
| March  | 31                       | 1.11                      | 0.3                     | 1.35                  | 1.08                  | 0.15                     |
|  |                          | No. Valid Samples         |                         | 3                     | -                     | -                        |
|  |                          | % Valid Data              |                         | 100%                  | -                     | -                        |
|  |                          | Arithmetic Mean           |                         | 0.80                  | 0.59                  | 0.155                    |
|  |                          | Max Monthly Concentration |                         | 1.35                  | 1.08                  | 0.165                    |
|  |                          | Min Monthly Concentration |                         | 0.3                   | 0.15                  | 0.15                     |
|  |                          | Comparison Limit          |                         | 7                     | -                     | -                        |
|  |                          | No. > Limit               |                         | 0                     | -                     | -                        |
|  |                          | MDL                       |                         | 0.3                   | -                     | -                        |
|  |                          | No. < MDL                 |                         | 0                     | -                     | -                        |

## APPENDIX A-3: SO<sub>2</sub> AND NO<sub>2</sub> PASSIVE SAMPLING RESULTS

| <b>Tait Road Station Monitoring Results</b><br>(concentrations expressed in $\mu\text{g}/\text{m}^3$ ) |                       |                       |
|--|-----------------------|-----------------------|
| <b>Month</b>   | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| January  | 0.26                  | 1.50                  |
| February   | 0.26                  | 2.07                  |
| March  | 0.26                  | 1.13                  |
| No. Valid Samples  | 3                     | 3                     |
| % Valid data   | 100%                  | 100%                  |
| Arithmetic Mean  | 0.26                  | 1.57                  |
| Max Monthly Concentration  | 0.26                  | 2.07                  |
| Min Monthly Concentration  | 0.26                  | 1.50                  |
| Comparison Limit   | 30                    | 78                    |
| No. > Limit  | 0                     | 0                     |
| MDL  | 0.26                  | 0.19                  |
| No. < MDL  | 0                     | 0                     |

| <b>Gallinger Road Station Monitoring Results</b><br>(concentrations expressed in $\mu\text{g}/\text{m}^3$ ) |                       |                       |
|---|-----------------------|-----------------------|
| <b>Month</b>  | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| October   | 0.26                  | 1.50                  |
| November  | 0.26                  | 0.56                  |
| December  | 0.26                  | 0.94                  |
| No. Valid Samples   | 3                     | 3                     |
| % Valid data  | 100%                  | 100%                  |
| Arithmetic Mean   | 0.26                  | 1.00                  |
| Max Monthly Concentration   | 0.26                  | 1.50                  |
| Min Monthly Concentration   | 0.26                  | 0.56                  |
| Comparison Limit  | 30                    | 78                    |
| No. > Limit   | 0                     | 0                     |
| MDL   | 0.26                  | 0.19                  |
| No. < MDL   | 0                     | 0                     |



# **APPENDIX B:**

## **NOTICE OF EXCEEDANCES FOR Q2 2023**

Ministry of the Environment  
435 James Street South.  
Suite 331  
Thunder Bay, ON P7E 6S7

Ministère de l'Environnement  
435, rue James sud  
Bureau 331  
Thunder Bay, ON P7E 6S7



Fax/télécopieur: (807) 475-1754  
Phone/ téléphone: (807) 475-1205

Northern Region Technical Support Section – Thunder Bay

June 23, 2023

Robyn Lloyd  
Environmental Technician

**New Gold Inc.**  
Rainy River Mine  
5967 Highway 11/71, P.O. Box 5  
Emo, Ontario, Canada, P0W 1E0  
T +1.807.234.8200 ext. 8029  
M +1.705.930.7112

Dear Ms. Lloyd:

Re: Air Monitoring Station Audit – Non-Continuous Monitors

On June 21<sup>st</sup> 2023 your company's stations [1<sup>st</sup> semi] were audited. Attached is a copy of the Audit record, below is a summary of the results:

1. Tait Road (Station #62054)

| Sampler Type  | Sampler S/N | % Error   | Criteria Met |
|---------------|-------------|-----------|--------------|
| PQ200 PM2.5   | 1751        | 1.2% High | Yes          |
| TSP Tisch     | 4118        | 7.5% Low  | Yes          |
| Dustfall Jars | N/A         | N/A       | Yes          |

2. Gallinger Road (Station #62055)

| Sampler Type  | Sampler S/N | % Error   | Criteria Met |
|---------------|-------------|-----------|--------------|
| PQ200 PM2.5   | 1752        | 0.6% Low  | Yes          |
| TSP Tisch     | 4035        | 2.5% High | Yes          |
| Dustfall Jars | N/A         | N/A       | Yes          |

If you have any questions, do not hesitate to call.

Yours truly,

Jim Stachowich  
Senior Environmental Officer  
Badge #1528  
Air, Pesticides and Environmental Planning  
Technical Support Section  
Northern Region

- c: Garnet Cornell Newgold Inc.
- c: Jason Tittlemier Senior Environmental Officer, Kenora District Office, MOE
- c: File AQ 06 13 Thunder Bay/NewGold Inc./62054/62055/2023/Semi #1

Site Information

|  |             |                     |                               |
|--|-------------|---------------------|-------------------------------|
| Date   | 2023 06 21  | Company             | New Gold                      |
| Station/Site No.   | 62055       | Location Address    | Chapple Municipal Collingwood |
| Calibrator make  | BOZ Tri-CAL | Instrument serial # | 1752                          |
| Calibrator Serial No.  | TC-5 S/N 64 | Instrument make     | BGI Pa 200                    |
| Accuracy (GPS)   | 9mms        | Pollutant           | PM2.5                         |
| Easting  | 043 1189    | Zone                | 154                           |
|  |             | Northing            | 5410539                       |
| +/- 10% Objective/Criteria Met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |             |                     |                               |
| Audit performed by (Name and Signature) <i>Jim Speltz</i> #1528                                    |             |                     |                               |

Results

Calibration Orifice and Equation - Manometer

|   |                 |                      |
|---|-----------------|----------------------|
| Calibration orifice number:   | Manometer type: | Manometer S/N:       |
| S = slope of the calibration orifice  |                 |                      |
| I = intercept of the calibration orifice  |                 |                      |
| Ambient Temperature   | 27.6°C          | Ambient Pressure     |
|   |                 | 778 mm Hg            |
| Audit Results   |                 | Required flow        |
| Manometer reading (in. of water)  |                 | Hi-vol & PM 40 cfm   |
| True flow calculated result:  |                 | PAH 30 cfm           |
| Percent error = $\frac{\sqrt{MR} \times S + I - \text{required flow}}{\text{required flow}} \times 100$ | 16.60 16.70     | Dioxins 8 cfm        |
| Leak Test   | 16.70           | 47 mm 16.7 L/M       |
| Temperature Correction = SQRT [298/(273+/-Ta)]  |                 | Ta = AMBIENT TEMP °C |

↓ 0.6%

Remarks

No other remarks

|  |             |              |
|--|-------------|--------------|
| Signature (Witness)  | Name        | Title        |
| <i>Rolyn Hays</i>  | Robyn Lloyd | Enviro Tech. |
| Has the instrument been restored to service? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |             |              |

COPY 1

# **APPENDIX C: LABORATORY RESULTS**



## CERTIFICATE OF ANALYSIS

|   |   |
|---|---|
| <p><b>Work Order</b> : <b>BU2300004</b></p> <p>Client : <b>New Gold Inc. (Rainy River)</b></p> <p>Contact : Robyn Lloyd</p> <p>Address : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p>Telephone : 807 234 8200</p> <p>Project : Air Quality</p> <p>PO : 4700001830</p> <p>C-O-C number : ----</p> <p>Sampler : Client</p> <p>Site :</p> <p>Quote number : Air Quality Standing Offer</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p> | <p>Page : 1 of 5</p> <p>Laboratory : Burlington - Environmental</p> <p>Account Manager : Claire Kocharakkal</p> <p>Address : 1435 Norjohn Court, Unit 1<br/>Burlington ON Canada L7L 0E6</p> <p>Telephone : +1 905 331 3111</p> <p>Date Samples Received : 03-May-2023 14:00</p> <p>Date Analysis Commenced : 04-May-2023</p> <p>Issue Date : 25-May-2023 17:23</p> |
|---|---|

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                         | <i>Laboratory Department</i>          |
|--------------------|---|---------------------------------------|
| Brianna Allen      | Production/Validation Manager           | Inorganics, Burnaby, British Columbia |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation | Metals, Burnaby, British Columbia     |
| Kinny Wu           | Lab Analyst                             | Metals, Burnaby, British Columbia     |
| Robin Weeks        | Team Leader - Metals                    | Metals, Burnaby, British Columbia     |
| Wayne Smith        | Client Services Specialist              | Administration, Burlington, Ontario   |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| <i>Qualifier</i> | <i>Description</i>                           |
|------------------|--|
| RRV              | Reported result verified by repeat analysis. |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                              |            |               |           |                         | Dustfall - Gallinger Road | Dustfall - Tait Road (South) | Dustfall - Northwest | Dustfall - Trip Blank | ----  |
|------------------------------|------------|---------------|-----------|-------------------------|---------------------------|------------------------------|----------------------|-----------------------|-------|
| Client sampling date / time  |            |               |           |                         | 29-Apr-2023               | 29-Apr-2023                  | 29-Apr-2023          | 29-Apr-2023           | ----  |
| Analyte                      | CAS Number | Method/Lab    | LOR       | Unit                    | BU2300004-001             | BU2300004-002                | BU2300004-003        | BU2300004-004         | ----- |
|                              |            |               |           |                         | Result                    | Result                       | Result               | Result                | ----  |
| <b>Field Tests</b>           |            |               |           |                         |                           |                              |                      |                       |       |
| Area sampled, field          | ---        | EF001A/VA     | 0.010     | cm <sup>2</sup>         | 63.6                      | 63.6                         | 55.4                 | 55.4                  | ----  |
| Sampling time, field         | ---        | EF001B/BU     | 1         | days                    | 31                        | 31                           | 31                   | 31                    | ----  |
| <b>Particulates</b>          |            |               |           |                         |                           |                              |                      |                       |       |
| Dustfall, fixed insoluble    | ---        | EC885.A/VA    | 0.10      | mg/dm <sup>2</sup> .day | 0.89                      | 0.65                         | 1.34                 | <0.11                 | ----  |
| Dustfall, volatile insoluble | ---        | EC885V.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.17                      | 0.33                         | 0.14                 | <0.10                 | ----  |
| Dustfall, total insoluble    | ---        | EC882.A/VA    | 0.10      | mg/dm <sup>2</sup> .day | 1.06                      | 0.98                         | 1.49                 | <0.11                 | ----  |
| Dustfall, fixed soluble      | ---        | EC884.A/VA    | 0.10      | mg/dm <sup>2</sup> .day | <0.10                     | <0.10                        | <0.11                | <0.11                 | ----  |
| Dustfall, volatile soluble   | ---        | EC884V.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.13                      | 0.47                         | <0.10                | <0.10                 | ----  |
| Dustfall, total soluble      | ---        | EC881.A/VA    | 0.10      | mg/dm <sup>2</sup> .day | 0.13                      | 0.47                         | <0.11                | <0.11                 | ----  |
| Dustfall, fixed              | ---        | EC883F.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.89                      | 0.65                         | 1.34                 | <0.22                 | ----  |
| Dustfall, volatile           | ---        | EC883V2.A/V A | 0.10      | mg/dm <sup>2</sup> .day | 0.30                      | 0.81                         | 0.14                 | <0.10                 | ----  |
| Dustfall, total              | ---        | EC880T.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 1.19                      | 1.46                         | 1.49                 | <0.22                 | ----  |
| Dustfall, fixed insoluble    | ---        | E885/VA       | 1.9       | mg                      | 17.6                      | 12.8                         | 23.1                 | <1.9                  | ----  |
| Dustfall, total insoluble    | ---        | E882/VA       | 1.9       | mg                      | 20.9                      | 19.4                         | 25.6                 | <1.9                  | ----  |
| Dustfall, fixed soluble      | ---        | E884/VA       | 1.9       | mg                      | <1.9                      | <1.9                         | <1.9                 | <1.9                  | ----  |
| Dustfall, total soluble      | ---        | E881/VA       | 1.9       | mg                      | 2.6                       | 9.3                          | <1.9                 | <1.9                  | ----  |
| <b>Total Metals</b>          |            |               |           |                         |                           |                              |                      |                       |       |
| Aluminum, total              | 7429-90-5  | EC447/VA      | 0.000160  | mg/dm <sup>2</sup> .day | 0.0149                    | 0.0107                       | 0.0320               | <0.000175             | ----  |
| Antimony, total              | 7440-36-0  | EC447/VA      | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000026                | <0.0000026                   | <0.0000029           | <0.0000029            | ----  |
| Arsenic, total               | 7440-38-2  | EC447/VA      | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000072                 | 0.0000059                    | 0.0000098            | <0.0000029            | ----  |
| Barium, total                | 7440-39-3  | EC447/VA      | 0.0000026 | mg/dm <sup>2</sup> .day | 0.000265                  | 0.0000725                    | 0.000235             | <0.0000029            | ----  |
| Beryllium, total             | 7440-41-7  | EC447/VA      | 0.000013  | mg/dm <sup>2</sup> .day | <0.000013                 | <0.000013                    | <0.000014            | <0.000014             | ----  |
| Bismuth, total               | 7440-69-9  | EC447/VA      | 0.000013  | mg/dm <sup>2</sup> .day | <0.000013                 | <0.000013                    | <0.000014            | <0.000014             | ----  |
| Boron, total                 | 7440-42-8  | EC447/VA      | 0.00026   | mg/dm <sup>2</sup> .day | <0.00026                  | <0.00026                     | <0.00029             | <0.00029              | ----  |
| Cadmium, total               | 7440-43-9  | EC447/VA      | 0.0000013 | mg/dm <sup>2</sup> .day | <0.0000013                | 0.0000020                    | <0.0000013           | <0.0000013            | ----  |
| Calcium, total               | 7440-70-2  | EC447/VA      | 0.00052   | mg/dm <sup>2</sup> .day | 0.0333                    | 0.0111                       | 0.0477               | 0.00064               | ----  |
| Chromium, total              | 7440-47-3  | EC447/VA      | 0.000013  | mg/dm <sup>2</sup> .day | 0.000019                  | 0.000016                     | 0.000101             | <0.000014             | ----  |
| Cobalt, total                | 7440-48-4  | EC447/VA      | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000084                 | 0.0000057                    | 0.0000104            | <0.0000029            | ----  |
| Copper, total                | 7440-50-8  | EC447/VA      | 0.000026  | mg/dm <sup>2</sup> .day | 0.000033                  | 0.000237                     | 0.000046             | <0.000029             | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |                         | Dustfall - Gallinger Road | Dustfall - Tait Road (South) | Dustfall - Northwest | Dustfall - Trip Blank | ----  |
|-----------------------------|------------|------------|-----------|-------------------------|---------------------------|------------------------------|----------------------|-----------------------|-------|
| Client sampling date / time |            |            |           |                         | 29-Apr-2023               | 29-Apr-2023                  | 29-Apr-2023          | 29-Apr-2023           | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit                    | BU2300004-001             | BU2300004-002                | BU2300004-003        | BU2300004-004         | ----- |
|                             |            |            |           |                         | Result                    | Result                       | Result               | Result                | ----  |
| <b>Total Metals</b>         |            |            |           |                         |                           |                              |                      |                       |       |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079   | mg/dm <sup>2</sup> .day | 0.0120                    | 0.00959                      | 0.0240               | <0.00087              | ----  |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.000013  | mg/dm <sup>2</sup> .day | 0.0000178                 | 0.0000140                    | 0.0000177            | <0.000014             | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013   | mg/dm <sup>2</sup> .day | <0.00013                  | <0.00013                     | <0.00014             | <0.00014              | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013   | mg/dm <sup>2</sup> .day | 0.00746                   | 0.00532                      | 0.0146               | <0.00014              | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.000052  | mg/dm <sup>2</sup> .day | 0.000644                  | 0.000303                     | 0.000623             | <0.000058             | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.000013  | mg/dm <sup>2</sup> .day | <0.000013                 | <0.000013                    | <0.000014            | <0.000014             | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.000013  | mg/dm <sup>2</sup> .day | 0.000024                  | 0.000029                     | 0.000023             | <0.000014             | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013  | mg/dm <sup>2</sup> .day | 0.000040                  | 0.000046                     | 0.000051             | <0.000014             | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013    | mg/dm <sup>2</sup> .day | 0.0014                    | 0.0264                       | <0.0014              | <0.0014               | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013    | mg/dm <sup>2</sup> .day | 0.0077                    | 0.0446                       | 0.0093               | <0.0014               | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026  | mg/dm <sup>2</sup> .day | <0.000026                 | <0.000026                    | <0.000029            | <0.000029             | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013    | mg/dm <sup>2</sup> .day | 0.0333                    | 0.0227                       | 0.0704               | <0.0014               | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000026                | 0.0000070                    | <0.0000029           | <0.0000029            | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013    | mg/dm <sup>2</sup> .day | 0.0051                    | 0.0152                       | 0.0056               | <0.0014               | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.000026  | mg/dm <sup>2</sup> .day | 0.000221                  | 0.0000512                    | 0.000232             | <0.000029             | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.000026  | mg/dm <sup>2</sup> .day | <0.000026                 | <0.000026                    | <0.000029            | <0.000029             | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.000026  | mg/dm <sup>2</sup> .day | <0.000026                 | <0.000026                    | <0.000029            | <0.000029             | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026   | mg/dm <sup>2</sup> .day | 0.00036                   | <0.00026                     | 0.00070              | <0.00029              | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.000026  | mg/dm <sup>2</sup> .day | <0.000026                 | <0.000026                    | <0.000026            | <0.000026             | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026  | mg/dm <sup>2</sup> .day | 0.000029                  | <0.000026                    | 0.000058             | <0.000029             | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079  | mg/dm <sup>2</sup> .day | 0.000122                  | 0.000335                     | 0.000140             | <0.00087              | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030    | mg                      | 0.294                     | 0.211                        | 0.549                | <0.0030               | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050  | mg                      | <0.000050                 | <0.000050                    | <0.000050            | <0.000050             | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050  | mg                      | 0.000142                  | 0.000116                     | 0.000169             | <0.000050             | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050  | mg                      | 0.00522                   | 0.00143                      | 0.00404              | <0.000050             | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025   | mg                      | <0.00025                  | <0.00025                     | <0.00025             | <0.00025              | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025   | mg                      | <0.00025                  | <0.00025                     | <0.00025             | <0.00025              | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050    | mg                      | <0.0050                   | <0.0050                      | <0.0050              | <0.0050               | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020  | mg                      | <0.000020                 | 0.000039                     | <0.000020            | <0.000020             | ----  |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010     | mg                      | 0.656                     | 0.219                        | 0.820                | 0.011 <sup>RRV</sup>  | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025   | mg                      | 0.00038                   | 0.00032                      | 0.00173              | <0.00025              | ----  |





## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | Dustfall - Gallinger Road | Dustfall - Tait Road (South) | Dustfall - Northwest | Dustfall - Trip Blank | ----  |
|-----------------------------|------------|------------|-----------|------|---------------------------|------------------------------|----------------------|-----------------------|-------|
| Client sampling date / time |            |            |           |      | 29-Apr-2023               | 29-Apr-2023                  | 29-Apr-2023          | 29-Apr-2023           | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2300004-001             | BU2300004-002                | BU2300004-003        | BU2300004-004         | ----- |
|                             |            |            |           |      | Result                    | Result                       | Result               | Result                | ----  |
| <b>Total Metals</b>         |            |            |           |      |                           |                              |                      |                       |       |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | 0.000166                  | 0.000113                     | 0.000178             | <0.000050             | ----  |
| Copper, total               | 7440-50-8  | E447/VA    | 0.000050  | mg   | 0.00065                   | 0.00467                      | 0.00079              | <0.000050             | ----  |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.237                     | 0.189                        | 0.413                | <0.015                | ----  |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | 0.000352                  | 0.000277                     | 0.000304             | <0.000025             | ----  |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025                   | <0.0025                      | <0.0025              | <0.0025               | ----  |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.147                     | 0.105                        | 0.250                | <0.0025               | ----  |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.0127                    | 0.00597                      | 0.0107               | <0.00010              | ----  |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025                 | <0.000025                    | <0.000025            | <0.000025             | ----  |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | 0.000047                  | 0.000057                     | 0.000040             | <0.000025             | ----  |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | 0.00078                   | 0.00090                      | 0.00087              | <0.00025              | ----  |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | 0.028                     | 0.521                        | <0.025               | <0.025                | ----  |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | 0.152                     | 0.880                        | 0.160                | <0.025                | ----  |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.000050  | mg   | <0.000050                 | <0.000050                    | <0.000050            | <0.000050             | ----  |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | 0.657                     | 0.448                        | 1.21                 | <0.025                | ----  |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | <0.0000050                | 0.0000138                    | <0.0000050           | <0.0000050            | ----  |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | 0.100                     | 0.300                        | 0.096                | <0.025                | ----  |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.00435                   | 0.00101                      | 0.00399              | <0.000050             | ----  |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050                 | <0.000050                    | <0.000050            | <0.000050             | ----  |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050                 | <0.000050                    | <0.000050            | <0.000050             | ----  |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | 0.0071                    | <0.0050                      | 0.0121               | <0.0050               | ----  |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | 0.0000135                 | 0.0000093                    | 0.0000148            | <0.0000050            | ----  |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.000050  | mg   | 0.00058                   | <0.00050                     | 0.00100              | <0.00050              | ----  |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | 0.0024                    | 0.0066                       | 0.0024               | <0.0015               | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



## QUALITY CONTROL INTERPRETIVE REPORT

|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2300004</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4700001830</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 10</p> <p><b>Laboratory</b> : Burlington - Environmental</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 03-May-2023 14:00</p> <p><b>Issue Date</b> : 25-May-2023 17:26</p> |
|---|--|

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

### Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### Summary of Outliers

#### Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

#### Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: \* = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                     | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Gallinger Road       | EF001A | 29-Apr-2023   | ----                     | ----          | ----   |      | 19-May-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Northwest         | EF001A | 29-Apr-2023   | ----                     | ----          | ----   |      | 19-May-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Tait Road (South) | EF001A | 29-Apr-2023   | ----                     | ----          | ----   |      | 19-May-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Trip Blank           | EF001A | 29-Apr-2023   | ----                     | ----          | ----   |      | 19-May-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Gallinger Road       | EF001B | 29-Apr-2023   | ----                     | ----          | ----   |      | 04-May-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Northwest         | EF001B | 29-Apr-2023   | ----                     | ----          | ----   |      | 04-May-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Tait Road (South) | EF001B | 29-Apr-2023   | ----                     | ----          | ----   |      | 04-May-2023   | ----          | ----   |      |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                            | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|---|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|   |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|   |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                        |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall - Trip Blank           | EF001B | 29-Apr-2023   | ----                     | ----          | ----   |      | 04-May-2023   | ----          | ----   |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>           |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall - Gallinger Road       | E885   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>           |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall - Northwest         | E885   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>           |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall - Tait Road (South) | E885   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>           |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall - Trip Blank           | E885   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>            |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall - Gallinger Road       | E884   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>            |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall - Northwest         | E884   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>            |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall - Tait Road (South) | E884   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>            |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall - Trip Blank           | E884   | 29-Apr-2023   | 18-May-2023              | ----          | ----   |      | 19-May-2023   | ----          | 1 days |      |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                     | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |        |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|--------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |        | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Gallinger Road       | E882   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Northwest         | E882   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Tait Road (South) | E882   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Trip Blank           | E882   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Gallinger Road       | E881   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Northwest         | E881   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Tait Road (South) | E881   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Trip Blank           | E881   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | ----          | 0 days |      |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Gallinger Road       | E516   | 29-Apr-2023   | 16-May-2023              | 180 days      | 18 days | ✔    | 17-May-2023   | 180 days      | 1 days | ✔    |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                     | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Trip Blank           | E516   | 29-Apr-2023   | 16-May-2023              | 180 days      | 18 days | ✔    | 17-May-2023   | 180 days      | 1 days  | ✔    |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Northwest         | E516   | 29-Apr-2023   | 17-May-2023              | 180 days      | 19 days | ✔    | 17-May-2023   | 180 days      | 0 days  | ✔    |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Tait Road (South) | E516   | 29-Apr-2023   | 17-May-2023              | 180 days      | 19 days | ✔    | 17-May-2023   | 180 days      | 0 days  | ✔    |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Gallinger Road       | E447   | 29-Apr-2023   | 16-May-2023              | ----          | ----    |      | 17-May-2023   | 180 days      | 19 days | ✔    |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Northwest         | E447   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | 180 days      | 19 days | ✔    |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall - Tait Road (South) | E447   | 29-Apr-2023   | 18-May-2023              | ----          | ----    |      | 18-May-2023   | 180 days      | 19 days | ✔    |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall - Trip Blank           | E447   | 29-Apr-2023   | 16-May-2023              | ----          | ----    |      | 17-May-2023   | 180 days      | 19 days | ✔    |

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 939815   | 2     | 12      | 16.6          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 939765   | 2     | 26      | 7.6           | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 944034   | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 944035   | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 944037   | 1     | 13      | 7.6           | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 939815   | 2     | 12      | 16.6          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 939765   | 2     | 26      | 7.6           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 944036   | 1     | 13      | 7.6           | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 944034   | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 944035   | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 944037   | 1     | 13      | 7.6           | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 939815   | 2     | 12      | 16.6          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 939765   | 2     | 26      | 7.6           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 944036   | 1     | 13      | 7.6           | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 939815   | 2     | 12      | 16.6          | 5.0      | ✔          |





## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods   | Method / Lab                          | Matrix | Method Reference            | Method Descriptions   |
|--|---------------------------------------|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)                   | E447<br>Vancouver - Environmental     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)                      | E516<br>Vancouver - Environmental     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)                 | E881<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)               | E882<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)                 | E884<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)                | E885<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm <sup>2</sup> .day)  | EC447<br>Vancouver - Environmental    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day by field information.  |
| Total Mercury by CVAAS (Dustfall, mg/dm <sup>2</sup> .day) | EC516<br>Vancouver - Environmental    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day based on field information.  |
| Total Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC880T.A<br>Vancouver - Environmental | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |



| Analytical Methods  | Method / Lab                           | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                    |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                  |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>Vancouver - Environmental  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>Vancouver - Environmental | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>Vancouver - Environmental  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>Vancouver - Environmental  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>Vancouver - Environmental    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>Burlington - Environmental   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|



| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                       | <i>Matrix</i> | <i>Method Reference</i>        | <i>Method Descriptions</i>  |
|---|---|---------------|--------------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br><br>Vancouver -<br>Environmental | Air           | EPA 6020A                      | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br><br>Vancouver -<br>Environmental | Air           | EPA 245.7                      | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br><br>Vancouver -<br>Environmental | Air           | BC LAB MANUAL -<br>PARTICULATE | Dustfall sample preparation.  |

## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2300004</b>                        | <b>Page</b>                    | : 1 of 11  |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : Burlington - Environmental                                       |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 03-May-2023 14:00  |
| <b>PO</b>                      | : 4700001830                              | <b>Date Analysis Commenced</b> | : 04-May-2023  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 25-May-2023 17:27  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 4                                       |                                |  |
| <b>No. of samples analysed</b> | : 4                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                         | <i>Laboratory Department</i>                    |
|--------------------|---|---|
| Brianna Allen      | Production/Validation Manager           | Vancouver Inorganics, Burnaby, British Columbia |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation | Vancouver Metals, Burnaby, British Columbia     |
| Kinny Wu           | Lab Analyst                             | Vancouver Metals, Burnaby, British Columbia     |
| Robin Weeks        | Team Leader - Metals                    | Vancouver Metals, Burnaby, British Columbia     |
| Wayne Smith        | Client Services Specialist              | Burlington Administration, Burlington, Ontario  |

Page : 2 of 11  
Work Order : BU2300004  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality

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## **General Comments**

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## **Workorder Comments**

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air

|                                      |                              |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|--------------------------------------|------------------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                 | Client sample ID             | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 939765)</b> |                              |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300004-002                        | Dustfall - Tait Road (South) | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | 0.211           | 0.206            | 2.54%                | 40%              | ---       |
|                                      |                              | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | 0.000116        | 0.000109         | 0.000008             | Diff <2x LOR     | ---       |
|                                      |                              | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | 0.00143         | 0.00130          | 9.99%                | 40%              | ---       |
|                                      |                              | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | 0.000039        | 0.000038         | 0.0000005            | Diff <2x LOR     | ---       |
|                                      |                              | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | 0.219           | 0.205            | 6.48%                | 30%              | ---       |
|                                      |                              | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | 0.00032         | 0.00039          | 0.00006              | Diff <2x LOR     | ---       |
|                                      |                              | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | 0.000113        | 0.000101         | 0.000012             | Diff <2x LOR     | ---       |
|                                      |                              | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg   | 0.00467         | 0.00445          | 4.76%                | 30%              | ---       |
|                                      |                              | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | 0.189           | 0.185            | 2.18%                | 30%              | ---       |
|                                      |                              | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | 0.000277        | 0.000251         | 9.70%                | 40%              | ---       |
|                                      |                              | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | 0.105           | 0.100            | 4.37%                | 30%              | ---       |
|                                      |                              | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | 0.00597         | 0.00575          | 3.64%                | 30%              | ---       |
|                                      |                              | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg   | 0.000057        | 0.000038         | 0.000019             | Diff <2x LOR     | ---       |
|                                      |                              | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | 0.00090         | 0.00068          | 0.00022              | Diff <2x LOR     | ---       |
|                                      |                              | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | 0.521           | 0.480            | 8.08%                | 30%              | ---       |
|                                      |                              | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | 0.880           | 0.855            | 2.89%                | 40%              | ---       |
|                                      |                              | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | 0.448           | 0.430            | 4.07%                | 30%              | ---       |
|                                      |                              | Silver, total     | 7440-22-4  | E447   | 0.0000050                         | mg   | 0.0000138       | 0.0000134        | 0.0000004            | Diff <2x LOR     | ---       |
|                                      |                              | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | 0.300           | 0.292            | 2.52%                | 40%              | ---       |
|                                      |                              | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | 0.00101         | 0.00100          | 0.940%               | 40%              | ---       |
|                                      |                              | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Titanium, total   | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ---       |
|                                      |                              | Uranium, total    | 7440-61-1  | E447   | 0.0000050                         | mg   | 0.0000093       | 0.0000086        | 0.0000007            | Diff <2x LOR     | ---       |



| Sub-Matrix: Air                                  |                              |                   |            |        | Laboratory Duplicate (DUP) Report |            |                 |                  |                      |                  |           |
|--|------------------------------|-------------------|------------|--------|-----------------------------------|------------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                             | Client sample ID             | Analyte           | CAS Number | Method | LOR                               | Unit       | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 939765) - continued</b> |                              |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300004-002                                    | Dustfall - Tait Road (South) | Vanadium, total   | 7440-62-2  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|  |                              | Zinc, total       | 7440-66-6  | E447   | 0.0015                            | mg         | 0.0066          | 0.0065           | 0.00002              | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 939793)</b>             |                              |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300004-001                                    | Dustfall - Gallinger Road    | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg         | 0.294           | 0.281            | 4.30%                | 40%              | ----      |
|  |                              | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg         | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|  |                              | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg         | 0.000142        | 0.000154         | 0.000012             | Diff <2x LOR     | ----      |
|  |                              | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg         | 0.00522         | 0.00481          | 8.19%                | 40%              | ----      |
|  |                              | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|  |                              | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|  |                              | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg         | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|  |                              | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg         | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|  |                              | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg         | 0.656           | 0.611            | 7.05%                | 30%              | ----      |
|  |                              | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg         | 0.00038         | 0.00036          | 0.00003              | Diff <2x LOR     | ----      |
|  |                              | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg         | 0.000166        | 0.000161         | 0.000005             | Diff <2x LOR     | ----      |
|  |                              | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg         | 0.00065         | 0.00068          | 0.00003              | Diff <2x LOR     | ----      |
|  |                              | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg         | 0.237           | 0.221            | 7.09%                | 30%              | ----      |
|  |                              | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg         | 0.000352        | 0.000314         | 11.5%                | 40%              | ----      |
|  |                              | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg         | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|  |                              | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg         | 0.147           | 0.137            | 7.05%                | 30%              | ----      |
|  |                              | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg         | 0.0127          | 0.0118           | 7.11%                | 30%              | ----      |
|  |                              | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg         | 0.000047        | 0.000038         | 0.000008             | Diff <2x LOR     | ----      |
|  |                              | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg         | 0.00078         | 0.00063          | 0.00015              | Diff <2x LOR     | ----      |
|  |                              | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg         | 0.028           | <0.025           | 0.003                | Diff <2x LOR     | ----      |
|  |                              | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg         | 0.152           | 0.146            | 3.86%                | 40%              | ----      |
|  |                              | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|  |                              | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg         | 0.657           | 0.642            | 2.38%                | 30%              | ----      |
| Silver, total                                    | 7440-22-4                    | E447              | 0.0000050  | mg     | <0.0000050                        | <0.0000050 | 0               | Diff <2x LOR     | ----                 |                  |           |
| Sodium, total                                    | 7440-23-5                    | E447              | 0.025      | mg     | 0.100                             | 0.094      | 0.006           | Diff <2x LOR     | ----                 |                  |           |
| Strontium, total                                 | 7440-24-6                    | E447              | 0.000050   | mg     | 0.00435                           | 0.00407    | 6.59%           | 40%              | ----                 |                  |           |
| Thallium, total                                  | 7440-28-0                    | E447              | 0.000050   | mg     | <0.000050                         | <0.000050  | 0               | Diff <2x LOR     | ----                 |                  |           |
| Tin, total                                       | 7440-31-5                    | E447              | 0.000050   | mg     | <0.000050                         | <0.000050  | 0               | Diff <2x LOR     | ----                 |                  |           |
| Titanium, total                                  | 7440-32-6                    | E447              | 0.0050     | mg     | 0.0071                            | 0.0064     | 0.0006          | Diff <2x LOR     | ----                 |                  |           |
| Uranium, total                                   | 7440-61-1                    | E447              | 0.0000050  | mg     | 0.0000135                         | 0.0000119  | 0.0000017       | Diff <2x LOR     | ----                 |                  |           |
| Vanadium, total                                  | 7440-62-2                    | E447              | 0.00050    | mg     | 0.00058                           | 0.00055    | 0.00003         | Diff <2x LOR     | ----                 |                  |           |

Page : 5 of 11  
 Work Order : BU2300004  
 Client : New Gold Inc. (Rainy River)  
 Project : Air Quality



| Sub-Matrix: Air                                  |                              |                |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|--|------------------------------|----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                             | Client sample ID             | Analyte        | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 939793) - continued</b> |                              |                |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300004-001                                    | Dustfall - Gallinger Road    | Zinc, total    | 7440-66-6  | E447   | 0.0015                            | mg   | 0.0024          | 0.0026           | 0.0002               | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 939798)</b>             |                              |                |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300004-001                                    | Dustfall - Gallinger Road    | Mercury, total | 7439-97-6  | E516   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 939815)</b>             |                              |                |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300004-002                                    | Dustfall - Tait Road (South) | Mercury, total | 7439-97-6  | E516   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |





## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                             | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|-------------------------------------|------------|--------|----------|------|------------|-----------|
| <b>Particulates (QCLot: 944034)</b> |            |        |          |      |            |           |
| Dustfall, fixed insoluble           | ---        | E885   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 944035)</b> |            |        |          |      |            |           |
| Dustfall, fixed soluble             | ---        | E884   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 944036)</b> |            |        |          |      |            |           |
| Dustfall, total soluble             | ---        | E881   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 944037)</b> |            |        |          |      |            |           |
| Dustfall, total insoluble           | ---        | E882   | 1.9      | mg   | <1.9       | ---       |
| <b>Total Metals (QCLot: 939765)</b> |            |        |          |      |            |           |
| Aluminum, total                     | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ---       |
| Antimony, total                     | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Arsenic, total                      | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Barium, total                       | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Beryllium, total                    | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Bismuth, total                      | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Boron, total                        | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ---       |
| Cadmium, total                      | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ---       |
| Calcium, total                      | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ---       |
| Chromium, total                     | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Cobalt, total                       | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Copper, total                       | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Iron, total                         | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ---       |
| Lead, total                         | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Lithium, total                      | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Magnesium, total                    | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Manganese, total                    | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ---       |
| Molybdenum, total                   | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Nickel, total                       | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Phosphorus, total                   | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ---       |
| Potassium, total                    | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ---       |
| Selenium, total                     | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Silicon, total                      | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ---       |
| Silver, total                       | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ---       |



Sub-Matrix: Air

| Analyte   | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|---|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 939765) - continued</b> |            |        |          |      |            |           |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 939793)</b>             |            |        |          |      |            |           |
| Aluminum, total                                 | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ----      |
| Antimony, total                                 | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Arsenic, total                                  | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Barium, total                                   | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Beryllium, total                                | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Bismuth, total                                  | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Boron, total                                    | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Cadmium, total                                  | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ----      |
| Calcium, total                                  | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ----      |
| Chromium, total                                 | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Cobalt, total                                   | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Copper, total                                   | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Iron, total                                     | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ----      |
| Lead, total                                     | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ----      |
| Lithium, total                                  | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ----      |
| Magnesium, total                                | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ----      |
| Manganese, total                                | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ----      |
| Molybdenum, total                               | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ----      |
| Nickel, total                                   | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Phosphorus, total                               | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ----      |
| Potassium, total                                | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ----      |
| Selenium, total                                 | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Silicon, total                                  | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ----      |
| Silver, total                                   | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |



Sub-Matrix: Air

| Analyte   | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|---|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 939793) - continued</b> |            |        |          |      |            |           |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 939798)</b>             |            |        |          |      |            |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |
| <b>Total Metals (QCLot: 939815)</b>             |            |        |          |      |            |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |



## Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                     |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|-------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|                                     |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                             | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Particulates (QCLot: 944034)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble           | ---        | E885   | 1.9      | mg   | 30 mg                                  | 99.4         | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 944035)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble             | ---        | E884   | 1.9      | mg   | 119 mg                                 | 108          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 944036)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble             | ---        | E881   | 1.9      | mg   | 200 mg                                 | 99.2         | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 944037)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble           | ---        | E882   | 1.9      | mg   | 30 mg                                  | 102          | 85.0                | 115  | ---       |
| <b>Total Metals (QCLot: 939765)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                     | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 105          | 80.0                | 120  | ---       |
| Antimony, total                     | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 112          | 80.0                | 120  | ---       |
| Arsenic, total                      | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 107          | 80.0                | 120  | ---       |
| Barium, total                       | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 95.9         | 80.0                | 120  | ---       |
| Beryllium, total                    | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 99.3         | 80.0                | 120  | ---       |
| Bismuth, total                      | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 104          | 80.0                | 120  | ---       |
| Boron, total                        | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 99.1         | 80.0                | 120  | ---       |
| Cadmium, total                      | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 103          | 80.0                | 120  | ---       |
| Calcium, total                      | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 97.5         | 80.0                | 120  | ---       |
| Chromium, total                     | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ---       |
| Cobalt, total                       | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ---       |
| Copper, total                       | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 105          | 80.0                | 120  | ---       |
| Iron, total                         | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 108          | 80.0                | 120  | ---       |
| Lead, total                         | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ---       |
| Lithium, total                      | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 95.8         | 80.0                | 120  | ---       |
| Magnesium, total                    | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 101          | 80.0                | 120  | ---       |
| Manganese, total                    | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 107          | 80.0                | 120  | ---       |
| Molybdenum, total                   | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ---       |
| Nickel, total                       | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ---       |
| Phosphorus, total                   | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 103          | 80.0                | 120  | ---       |
| Potassium, total                    | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 99.8         | 80.0                | 120  | ---       |
| Selenium, total                     | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 103          | 80.0                | 120  | ---       |
| Silicon, total                      | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 107          | 80.0                | 120  | ---       |
| Silver, total                       | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 92.8         | 80.0                | 120  | ---       |



| Sub-Matrix: Air                                 |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|   |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Analyte   | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High |           |
| <b>Total Metals (QCLot: 939765) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 104          | 80.0                | 120  | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 105          | 80.0                | 120  | ----      |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 107          | 80.0                | 120  | ----      |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 105          | 80.0                | 120  | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 106          | 80.0                | 120  | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 106          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 939793)</b>             |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                                 | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 108          | 80.0                | 120  | ----      |
| Antimony, total                                 | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 116          | 80.0                | 120  | ----      |
| Arsenic, total                                  | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 115          | 80.0                | 120  | ----      |
| Barium, total                                   | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 110          | 80.0                | 120  | ----      |
| Beryllium, total                                | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 111          | 80.0                | 120  | ----      |
| Bismuth, total                                  | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 83.9         | 80.0                | 120  | ----      |
| Boron, total                                    | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 105          | 80.0                | 120  | ----      |
| Cadmium, total                                  | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 112          | 80.0                | 120  | ----      |
| Calcium, total                                  | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 109          | 80.0                | 120  | ----      |
| Chromium, total                                 | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 103          | 80.0                | 120  | ----      |
| Cobalt, total                                   | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 109          | 80.0                | 120  | ----      |
| Copper, total                                   | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 108          | 80.0                | 120  | ----      |
| Iron, total                                     | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 107          | 80.0                | 120  | ----      |
| Lead, total                                     | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 109          | 80.0                | 120  | ----      |
| Lithium, total                                  | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 111          | 80.0                | 120  | ----      |
| Magnesium, total                                | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 112          | 80.0                | 120  | ----      |
| Manganese, total                                | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 107          | 80.0                | 120  | ----      |
| Molybdenum, total                               | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Nickel, total                                   | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 108          | 80.0                | 120  | ----      |
| Phosphorus, total                               | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 106          | 80.0                | 120  | ----      |
| Potassium, total                                | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 113          | 80.0                | 120  | ----      |
| Selenium, total                                 | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 117          | 80.0                | 120  | ----      |
| Silicon, total                                  | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 112          | 80.0                | 120  | ----      |
| Silver, total                                   | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 98.1         | 80.0                | 120  | ----      |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 116          | 80.0                | 120  | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 108          | 80.0                | 120  | ----      |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 98.5         | 80.0                | 120  | ----      |

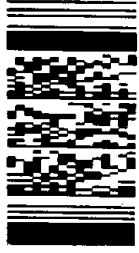


| Sub-Matrix: Air                                 |            |        |          |      | Laboratory Control Sample (LCS) Report |     |              |                     |           |
|---|------------|--------|----------|------|--|-----|--------------|---------------------|-----------|
|   |            |        |          |      | Spike                                  |     | Recovery (%) | Recovery Limits (%) |           |
| Analyte   | CAS Number | Method | LOR      | Unit | Concentration                          | LCS | Low          | High                | Qualifier |
| <b>Total Metals (QCLot: 939793) - continued</b> |            |        |          |      |  |     |              |                     |           |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 105 | 80.0         | 120                 | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 106 | 80.0         | 120                 | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 107 | 80.0         | 120                 | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 109 | 80.0         | 120                 | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 114 | 80.0         | 120                 | ----      |
| <b>Total Metals (QCLot: 939798)</b>             |            |        |          |      |  |     |              |                     |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 105 | 70.0         | 130                 | ----      |
| <b>Total Metals (QCLot: 939815)</b>             |            |        |          |      |  |     |              |                     |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 106 | 70.0         | 130                 | ----      |

### Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level  $\geq 1x$  spike level.

| Sub-Matrix: Air                     |                       |                |            |        | Matrix Spike (MS) Report |            |              |                     |      |           |
|-------------------------------------|-----------------------|----------------|------------|--------|--------------------------|------------|--------------|---------------------|------|-----------|
|                                     |                       |                |            |        | Spike                    |            | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Laboratory sample ID                | Client sample ID      | Analyte        | CAS Number | Method | Concentration            | Target     | MS           | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 939798)</b> |                       |                |            |        |                          |            |              |                     |      |           |
| BU2300004-004                       | Dustfall - Trip Blank | Mercury, total | 7439-97-6  | E516   | 0.000443 mg              | 0.0005 mg  | 88.6         | 70.0                | 130  | ----      |
| <b>Total Metals (QCLot: 939815)</b> |                       |                |            |        |                          |            |              |                     |      |           |
| BU2300004-003                       | Dustfall - Northwest  | Mercury, total | 7439-97-6  | E516   | 0.000345 mg              | 0.00036 mg | 95.7         | 70.0                | 130  | ----      |



Telephone : - 1 905 331 3111

Chain of Custody / Analytical Request Form  
1435 Norfolk Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
Tel +1-905-331-3111 Fax +1-905-331-4667 www.alsglobal.com



| Report To        |  | Report Format / Distribution |              | Service Requested  |               |
|------------------|--|------------------------------|--------------|--|---------------|
| Company:         | New Gold Inc.                                | Regular Service              |              | Rush Service (with extra consultation) - surcharge applies |               |
| Contact:         | Robyn Lloyd                                  | Other - Please contact ALS   |              |  |               |
| Address:         | 11361 Roca Road, Chappell, ON P0W 1A0        | Analysis Request             |              |  |               |
| Phone:           | 1807-234-8200 ext. 8029 Fax                  |                              |              |  |               |
| Invoice To       | Same as Report                               |                              |              |  |               |
| Company:         |  |                              |              |  |               |
| Contact:         |  |                              |              |  |               |
| Address:         |  |                              |              |  |               |
| Phone:           |  |                              |              |  |               |
| Lab Work Order # |  |                              |              |  |               |
| Sample #         | Sample Identification                        | Date (dd-mm-yy)              | Time (hh:mm) | Sample Type  | TP and Metals |
|                  | (This description will appear on the report) |                              |              |  |               |
|                  | NORTH-TSP-477                                | 31-Mar-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-TSP-477                                | 31-Mar-2023                  | 12:00        | Air  | X             |
|                  | NORTHWEST-TSP-477                            | 31-Mar-2023                  | 12:00        | Air  | X             |
|                  | NORTH-TSP-478                                | 6-Apr-2023                   | 12:00        | Air  | X             |
|                  | SOUTH-TSP-478                                | 6-Apr-2023                   | 12:00        | Air  | X             |
|                  | NORTHWEST-TSP-478                            | 6-Apr-2023                   | 12:00        | Air  | X             |
|                  | NORTH-TSP-479                                | 12-Apr-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-TSP-479                                | 12-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTHWEST-TSP-479                            | 12-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTH-TSP-480                                | 18-Apr-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-TSP-480                                | 18-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTHWEST-TSP-480                            | 18-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTH-TSP-481                                | 24-Apr-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-TSP-481                                | 24-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTHWEST-TSP-481                            | 24-Apr-2023                  | 12:00        | Air  | X             |
|                  | TRIP BLANK - APRIL TSP                       | 30-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTH-PM2.5-477                              | 31-Mar-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-PM2.5-477                              | 31-Mar-2023                  | 12:00        | Air  | X             |
|                  | NORTH-PM2.5-478                              | 6-Apr-2023                   | 12:00        | Air  | X             |
|                  | SOUTH-PM2.5-478                              | 6-Apr-2023                   | 12:00        | Air  | X             |
|                  | NORTH-PM2.5-479                              | 12-Apr-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-PM2.5-479                              | 12-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTH-PM2.5-480                              | 18-Apr-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-PM2.5-480                              | 18-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTH-PM2.5-481                              | 24-Apr-2023                  | 12:00        | Air  | X             |
|                  | SOUTH-PM2.5-481                              | 24-Apr-2023                  | 12:00        | Air  | X             |
|                  | NORTHWEST-PM2.5-481                          | 24-Apr-2023                  | 12:00        | Air  | X             |
|                  | TRIP BLANK - APRIL PM2.5                     | 30-Apr-23                    | 12:00        | Air  | X             |
|                  | Dustfall - Gallinger Road                    | 29-Apr-2023                  | 12:00        | Air  | X             |
|                  | Dustfall - Tail Road (South)                 | 29-Apr-2023                  | 12:00        | Air  | X             |
|                  | Dustfall - Northwest                         | 29-Apr-2023                  | 12:00        | Air  | X             |
|                  | Dustfall - Trip Blank                        | 29-Apr-2023                  | 12:00        | Air  | X             |

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

Released by: \_\_\_\_\_ Date (dd-mm-yy): \_\_\_\_\_ Time (hh:mm): \_\_\_\_\_

Received by: **ARROW BULLION** Date: **3-MAY 2023** Time: **14:00** Temperature: **17.9 °C**

Verified by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Observations: Yes / No ? If Yes add S/I



## CERTIFICATE OF ANALYSIS

|   |   |
|---|---|
| <p><b>Work Order</b> : <b>BU2300018</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4500059107</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 5</p> <p><b>Laboratory</b> : Burlington - Environmental</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington ON Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 02-Jun-2023 12:30</p> <p><b>Date Analysis Commenced</b> : 06-Jun-2023</p> <p><b>Issue Date</b> : 23-Jun-2023 17:11</p> |
|---|---|

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                         | <i>Laboratory Department</i>          |
|--------------------|---|---------------------------------------|
| Aaron Burton       | Login                                   | Administration, Burlington, Ontario   |
| Alex Thornton      | Analyst                                 | Metals, Burnaby, British Columbia     |
| Angela Ren         | Team Leader - Metals                    | Metals, Burnaby, British Columbia     |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation | Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals             | Metals, Burnaby, British Columbia     |
| Miles Gropen       | Department Manager - Inorganics         | Inorganics, Burnaby, British Columbia |
| Owen Cheng         |   | Metals, Burnaby, British Columbia     |





## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Analytical Results

| Sub-Matrix: Dustfall         |            |                  |           |                         | Client sample ID |                |                        |                        |       |
|------------------------------|------------|------------------|-----------|-------------------------|------------------|----------------|------------------------|------------------------|-------|
| (Matrix: Air)                |            |                  |           |                         | Dustfall-North   | Dustfall-South | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
| Client sampling date / time  |            |                  |           |                         | 29-Apr-2023      | 29-Apr-2023    | 29-Apr-2023            | 30-May-2023            | ----  |
| Analyte                      | CAS Number | Method/Lab       | LOR       | Unit                    | BU2300018-001    | BU2300018-002  | BU2300018-003          | BU2300018-004          | ----- |
|                              |            |                  |           |                         | Result           | Result         | Result                 | Result                 | ----  |
| <b>Field Tests</b>           |            |                  |           |                         |                  |                |                        |                        |       |
| Area sampled, field          | ---        | EF001A/VA        | 0.010     | cm <sup>2</sup>         | 55.4             | 55.4           | 55.4                   | 55.4                   | ----  |
| Sampling time, field         | ---        | EF001B/BU        | 1         | days                    | 30               | 30             | 30                     | 30                     | ----  |
| <b>Particulates</b>          |            |                  |           |                         |                  |                |                        |                        |       |
| Dustfall, fixed insoluble    | ---        | EC885.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.28             | 0.80           | 0.20                   | <0.11                  | ----  |
| Dustfall, volatile insoluble | ---        | EC885V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.43             | 0.16           | <0.10                  | <0.10                  | ----  |
| Dustfall, total insoluble    | ---        | EC882.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.70             | 0.96           | 0.25                   | <0.11                  | ----  |
| Dustfall, fixed soluble      | ---        | EC884.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.17             | 0.16           | <0.11                  | <0.11                  | ----  |
| Dustfall, volatile soluble   | ---        | EC884V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.34             | 0.34           | 0.17                   | <0.10                  | ----  |
| Dustfall, total soluble      | ---        | EC881.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.51             | 0.50           | 0.17                   | <0.11                  | ----  |
| Dustfall, fixed              | ---        | EC883F.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.45             | 0.96           | <0.23                  | <0.23                  | ----  |
| Dustfall, volatile           | ---        | EC883V2.A/V<br>A | 0.10      | mg/dm <sup>2</sup> .day | 0.76             | 0.50           | 0.22                   | <0.10                  | ----  |
| Dustfall, total              | ---        | EC880T.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 1.22             | 1.47           | 0.42                   | <0.23                  | ----  |
| Dustfall, fixed insoluble    | ---        | E885/VA          | 1.9       | mg                      | 4.6              | 13.3           | 3.3                    | <1.9                   | ----  |
| Dustfall, total insoluble    | ---        | E882/VA          | 1.9       | mg                      | 11.7             | 16.0           | 4.2                    | <1.9                   | ----  |
| Dustfall, fixed soluble      | ---        | E884/VA          | 1.9       | mg                      | 2.9              | 2.7            | <1.9                   | <1.9                   | ----  |
| Dustfall, total soluble      | ---        | E881/VA          | 1.9       | mg                      | 8.5              | 8.4            | 2.8                    | <1.9                   | ----  |
| <b>Total Metals</b>          |            |                  |           |                         |                  |                |                        |                        |       |
| Aluminum, total              | 7429-90-5  | EC447/VA         | 0.000160  | mg/dm <sup>2</sup> .day | 0.00239          | 0.00549        | 0.00369                | <0.000180              | ----  |
| Antimony, total              | 7440-36-0  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000030        | 0.0000033      | <0.0000030             | <0.0000030             | ----  |
| Arsenic, total               | 7440-38-2  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000038        | 0.0000058      | 0.0000032              | <0.0000030             | ----  |
| Barium, total                | 7440-39-3  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000387        | 0.0000501      | 0.0000286              | <0.0000030             | ----  |
| Beryllium, total             | 7440-41-7  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000015        | <0.000015      | <0.000015              | <0.000015              | ----  |
| Bismuth, total               | 7440-69-9  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000015        | <0.000015      | <0.000015              | <0.000015              | ----  |
| Boron, total                 | 7440-42-8  | EC447/VA         | 0.00026   | mg/dm <sup>2</sup> .day | <0.00030         | <0.00030       | <0.00030               | <0.00030               | ----  |
| Cadmium, total               | 7440-43-9  | EC447/VA         | 0.0000013 | mg/dm <sup>2</sup> .day | 0.0000016        | <0.0000013     | <0.0000013             | <0.0000013             | ----  |
| Calcium, total               | 7440-70-2  | EC447/VA         | 0.00052   | mg/dm <sup>2</sup> .day | 0.0176           | 0.0519         | 0.0148                 | <0.00060               | ----  |
| Chromium, total              | 7440-47-3  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | 0.000026         | <0.000015      | 0.000022               | <0.000015              | ----  |
| Cobalt, total                | 7440-48-4  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000030       | 0.0000044      | <0.0000030             | <0.0000030             | ----  |
| Copper, total                | 7440-50-8  | EC447/VA         | 0.000026  | mg/dm <sup>2</sup> .day | 0.000052         | 0.000068       | <0.000030              | <0.000030              | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | Dustfall-North | Dustfall-South | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|-----------------------------|------------|------------|------------|-------------------------|----------------|----------------|------------------------|------------------------|-------|
| Client sampling date / time |            |            |            |                         | 29-Apr-2023    | 29-Apr-2023    | 29-Apr-2023            | 30-May-2023            | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | BU2300018-001  | BU2300018-002  | BU2300018-003          | BU2300018-004          | ----- |
|                             |            |            |            |                         | Result         | Result         | Result                 | Result                 | ----  |
| <b>Total Metals</b>         |            |            |            |                         |                |                |                        |                        |       |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079    | mg/dm <sup>2</sup> .day | 0.00313        | 0.00602        | 0.00367                | <0.00090               | ----  |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | 0.0000072      | 0.0000137      | 0.0000033              | <0.0000015             | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | <0.00015       | <0.00015       | <0.00015               | <0.00015               | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | 0.00632        | 0.00710        | 0.00432                | <0.00015               | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>2</sup> .day | 0.000313       | 0.000561       | 0.000254               | <0.0000060             | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000015     | <0.0000015     | <0.0000015             | <0.0000015             | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | 0.0000029      | 0.0000023      | 0.0000020              | <0.0000015             | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>2</sup> .day | 0.000017       | 0.000037       | 0.000022               | <0.000015              | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0167         | 0.0067         | 0.0041                 | <0.0015                | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0260         | 0.0176         | 0.0096                 | <0.0015                | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000030      | <0.000030      | <0.000030              | <0.000030              | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0058         | 0.0098         | 0.0058                 | <0.0015                | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>2</sup> .day | 0.00000054     | 0.00000034     | <0.00000030            | <0.00000030            | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0037         | 0.0038         | 0.0039                 | <0.0015                | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | 0.0000461      | 0.000114       | 0.0000375              | <0.0000030             | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000030     | <0.0000030     | <0.0000030             | <0.0000030             | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000030     | 0.0000035      | 0.0000077              | <0.0000030             | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>2</sup> .day | <0.00030       | <0.00030       | <0.00030               | <0.00030               | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000026     | <0.0000026     | <0.0000026             | <0.0000026             | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000030      | <0.000030      | <0.000030              | <0.000030              | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>2</sup> .day | 0.000343       | 0.000301       | 0.000108               | <0.000090              | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | 0.0398         | 0.0912         | 0.0614                 | <0.0030                | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | 0.000050       | 0.000055       | <0.000050              | <0.000050              | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | 0.000064       | 0.000096       | 0.000053               | <0.000050              | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | 0.000643       | 0.000832       | 0.000476               | <0.000050              | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025       | <0.00025       | <0.00025               | <0.00025               | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025       | <0.00025       | <0.00025               | <0.00025               | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050        | <0.0050        | <0.0050                | <0.0050                | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | 0.000026       | <0.000020      | <0.000020              | <0.000020              | ----  |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010      | mg                      | 0.293          | 0.862          | 0.246                  | <0.010                 | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025    | mg                      | 0.00044        | <0.00025       | 0.00037                | <0.00025               | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | Dustfall-North | Dustfall-South | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|-----------------------------|------------|------------|-----------|------|----------------|----------------|------------------------|------------------------|-------|
| Client sampling date / time |            |            |           |      | 29-Apr-2023    | 29-Apr-2023    | 29-Apr-2023            | 30-May-2023            | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2300018-001  | BU2300018-002  | BU2300018-003          | BU2300018-004          | ----- |
|                             |            |            |           |      | Result         | Result         | Result                 | Result                 | ----  |
| <b>Total Metals</b>         |            |            |           |      |                |                |                        |                        |       |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | <0.000050      | 0.000073       | <0.000050              | <0.000050              | ----  |
| Copper, total               | 7440-50-8  | E447/VA    | 0.00050   | mg   | 0.00087        | 0.00113        | <0.00050               | <0.00050               | ----  |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.052          | 0.100          | 0.061                  | <0.015                 | ----  |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | 0.000120       | 0.000228       | 0.000055               | <0.000025              | ----  |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025        | <0.0025        | <0.0025                | <0.0025                | ----  |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.105          | 0.118          | 0.0718                 | <0.0025                | ----  |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.00521        | 0.00932        | 0.00422                | <0.00010               | ----  |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025      | <0.000025      | <0.000025              | <0.000025              | ----  |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | 0.000048       | 0.000039       | 0.000033               | <0.000025              | ----  |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | 0.00028        | 0.00061        | 0.00036                | <0.00025               | ----  |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | 0.278          | 0.112          | 0.068                  | <0.025                 | ----  |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | 0.432          | 0.293          | 0.160                  | <0.025                 | ----  |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050       | <0.00050       | <0.00050               | <0.00050               | ----  |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | 0.097          | 0.163          | 0.097                  | <0.025                 | ----  |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | 0.0000090      | 0.0000057      | <0.0000050             | <0.0000050             | ----  |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | 0.062          | 0.063          | 0.065                  | <0.025                 | ----  |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.000767       | 0.00189        | 0.000624               | <0.000050              | ----  |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050      | <0.000050      | <0.000050              | <0.000050              | ----  |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050      | 0.000058       | 0.000128               | <0.000050              | ----  |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050        | <0.0050        | <0.0050                | <0.0050                | ----  |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050     | <0.0000050     | <0.0000050             | <0.0000050             | ----  |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050       | <0.00050       | <0.00050               | <0.00050               | ----  |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | 0.0057         | 0.0050         | 0.0018                 | <0.0015                | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.




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## QUALITY CONTROL INTERPRETIVE REPORT

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|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2300018</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4500059107</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 11</p> <p><b>Laboratory</b> : Burlington - Environmental</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 02-Jun-2023 12:30</p> <p><b>Issue Date</b> : 23-Jun-2023 17:10</p> |
|---|--|

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

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### ***Workorder Comments***

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### ***Summary of Outliers***

#### ***Outliers : Quality Control Samples***

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### ***Outliers: Reference Material (RM) Samples***

- No Reference Material (RM) Sample outliers occur.

***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



**Outliers : Quality Control Samples**

*Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes*

Matrix: Air

| Analyte Group               | Laboratory sample ID | Client/Ref Sample ID | Analyte         | CAS Number | Method | Result       | Limits | Comment  |
|-----------------------------|----------------------|----------------------|-----------------|------------|--------|--------------|--------|--|
| <b>Duplicate (DUP) RPDs</b> |                      |                      |                 |            |        |              |        |  |
| Total Metals                | BU2300018-001        | Dustfall-North       | Aluminum, total | 7429-90-5  | E447   | 43.4 % DUP-H | 40%    | Duplicate RPD does not meet the DQO for this test. |
| Total Metals                | BU2300018-004        | Dustfall-Trip Blank  | Arsenic, total  | 7440-38-2  | E447   | 185 % DUP-H  | 30%    | Duplicate RPD does not meet the DQO for this test. |

**Result Qualifiers**

| Qualifier | Description   |
|-----------|---|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: \* = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)            | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|---|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|   |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|   |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North      | EF001A | 29-Apr-2023   | ----                     | ----          | ----   |      | 12-Jun-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest  | EF001A | 29-Apr-2023   | ----                     | ----          | ----   |      | 12-Jun-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South      | EF001A | 29-Apr-2023   | ----                     | ----          | ----   |      | 12-Jun-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank | EF001A | 30-May-2023   | ----                     | ----          | ----   |      | 21-Jun-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>        |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North      | EF001B | 29-Apr-2023   | ----                     | ----          | ----   |      | 06-Jun-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>        |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest  | EF001B | 29-Apr-2023   | ----                     | ----          | ----   |      | 06-Jun-2023   | ----          | ----   |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>        |        |               |                          |               |        |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South      | EF001B | 29-Apr-2023   | ----                     | ----          | ----   |      | 06-Jun-2023   | ----          | ----   |      |





Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                   | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>               |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank | EF001B | 30-May-2023   | ----                     | ----          | ----   |      | 06-Jun-2023   | ----          | ----   |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-North      | E885   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----   |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Northwest  | E885   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----   |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-South      | E885   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----   |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank | E885   | 30-May-2023   | 20-Jun-2023              | ----          | ----   |      | 20-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-North      | E884   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----   |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Northwest  | E884   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----   |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-South      | E884   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----   |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |        |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank | E884   | 30-May-2023   | 20-Jun-2023              | ----          | ----   |      | 20-Jun-2023   | ----          | 0 days |      |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                   | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |        |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|--------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |        | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North             | E882   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest         | E882   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South             | E882   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank        | E882   | 30-May-2023   | 20-Jun-2023              | ----          | ----    |      | 20-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North             | E881   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest         | E881   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South             | E881   | 29-Apr-2023   | 12-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | ----          | 0 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank        | E881   | 30-May-2023   | 20-Jun-2023              | ----          | ----    |      | 20-Jun-2023   | ----          | 0 days |      |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>        |        |               |                          |               |         |      |               |               |        |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank        | E516   | 30-May-2023   | 17-Jun-2023              | 180 days      | 18 days | ✔    | 19-Jun-2023   | 180 days      | 2 days | ✔    |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)               | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North         | E516   | 29-Apr-2023   | 09-Jun-2023              | 180 days      | 42 days | ✔    | 10-Jun-2023   | 180 days      | 0 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest     | E516   | 29-Apr-2023   | 09-Jun-2023              | 180 days      | 42 days | ✔    | 10-Jun-2023   | 180 days      | 0 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South         | E516   | 29-Apr-2023   | 09-Jun-2023              | 180 days      | 42 days | ✔    | 10-Jun-2023   | 180 days      | 0 days  | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank    | E447   | 30-May-2023   | 17-Jun-2023              | ----          | ----    |      | 20-Jun-2023   | 180 days      | 21 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North         | E447   | 29-Apr-2023   | 09-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | 180 days      | 45 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest     | E447   | 29-Apr-2023   | 09-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | 180 days      | 45 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South         | E447   | 29-Apr-2023   | 09-Jun-2023              | ----          | ----    |      | 12-Jun-2023   | 180 days      | 45 days | ✔    |  |

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 993722   | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 981658   | 2     | 18      | 11.1          | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 996795   | 2     | 9       | 22.2          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 996796   | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 996798   | 2     | 18      | 11.1          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 993722   | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 981658   | 2     | 18      | 11.1          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 996797   | 2     | 13      | 15.3          | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 996795   | 2     | 9       | 22.2          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 996796   | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 996798   | 2     | 18      | 11.1          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 993722   | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 981658   | 2     | 18      | 11.1          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 996797   | 2     | 13      | 15.3          | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 993722   | 1     | 4       | 25.0          | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods   | Method / Lab                          | Matrix | Method Reference            | Method Descriptions   |
|--|---------------------------------------|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)                   | E447<br>Vancouver - Environmental     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)                      | E516<br>Vancouver - Environmental     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)                 | E881<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)               | E882<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)                 | E884<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)                | E885<br>Vancouver - Environmental     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm <sup>2</sup> .day)  | EC447<br>Vancouver - Environmental    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day by field information.  |
| Total Mercury by CVAAS (Dustfall, mg/dm <sup>2</sup> .day) | EC516<br>Vancouver - Environmental    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day based on field information.  |
| Total Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC880T.A<br>Vancouver - Environmental | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |



| Analytical Methods  | Method / Lab                           | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                    |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                  |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>Vancouver - Environmental  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>Vancouver - Environmental | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>Vancouver - Environmental  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>Vancouver - Environmental   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>Vancouver - Environmental  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>Vancouver - Environmental    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>Burlington - Environmental   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|



| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                       | <i>Matrix</i> | <i>Method Reference</i>        | <i>Method Descriptions</i>  |
|---|---|---------------|--------------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br><br>Vancouver -<br>Environmental | Air           | EPA 6020A                      | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br><br>Vancouver -<br>Environmental | Air           | EPA 245.7                      | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br><br>Vancouver -<br>Environmental | Air           | BC LAB MANUAL -<br>PARTICULATE | Dustfall sample preparation.  |

## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2300018</b>                        | <b>Page</b>                    | : 1 of 11  |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : Burlington - Environmental                                       |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 02-Jun-2023 12:30  |
| <b>PO</b>                      | : 4500059107                              | <b>Date Analysis Commenced</b> | : 06-Jun-2023  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 23-Jun-2023 17:15  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 4                                       |                                |  |
| <b>No. of samples analysed</b> | : 4                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                         | <i>Laboratory Department</i>                    |
|--------------------|---|---|
| Aaron Burton       | Login                                   | Burlington Administration, Burlington, Ontario  |
| Alex Thornton      | Analyst                                 | Vancouver Metals, Burnaby, British Columbia     |
| Angela Ren         | Team Leader - Metals                    | Vancouver Metals, Burnaby, British Columbia     |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation | Vancouver Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals             | Vancouver Metals, Burnaby, British Columbia     |
| Miles Gropen       | Department Manager - Inorganics         | Vancouver Inorganics, Burnaby, British Columbia |
| Owen Cheng         |   | Vancouver Metals, Burnaby, British Columbia     |



Page : 2 of 11  
Work Order : BU2300018  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## Workorder Comments

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air

|                                      |                  |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|--------------------------------------|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                 | Client sample ID | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 981658)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300018-001                        | Dustfall-North   | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | 0.0398          | 0.0619           | 43.4%                | 40%              | DUP-H     |
|                                      |                  | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | 0.000050        | <0.000050        | 0.0000002            | Diff <2x LOR     | ----      |
|                                      |                  | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | 0.000064        | 0.000070         | 0.000006             | Diff <2x LOR     | ----      |
|                                      |                  | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | 0.000643        | 0.000917         | 35.1%                | 40%              | ----      |
|                                      |                  | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | 0.000026        | 0.000032         | 0.000006             | Diff <2x LOR     | ----      |
|                                      |                  | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | 0.293           | 0.314            | 6.96%                | 30%              | ----      |
|                                      |                  | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | 0.00044         | 0.00029          | 0.00016              | Diff <2x LOR     | ----      |
|                                      |                  | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg   | 0.00087         | 0.00106          | 0.00018              | Diff <2x LOR     | ----      |
|                                      |                  | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | 0.052           | 0.079            | 0.027                | Diff <2x LOR     | ----      |
|                                      |                  | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | 0.000120        | 0.000095         | 0.000025             | Diff <2x LOR     | ----      |
|                                      |                  | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | 0.105           | 0.118            | 11.3%                | 30%              | ----      |
|                                      |                  | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | 0.00521         | 0.00575          | 9.84%                | 30%              | ----      |
|                                      |                  | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg   | 0.000048        | 0.000047         | 0.0000006            | Diff <2x LOR     | ----      |
|                                      |                  | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | 0.00028         | 0.00031          | 0.00004              | Diff <2x LOR     | ----      |
|                                      |                  | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | 0.278           | 0.295            | 6.06%                | 30%              | ----      |
|                                      |                  | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | 0.432           | 0.444            | 2.81%                | 40%              | ----      |
|                                      |                  | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | 0.097           | 0.130            | 0.033                | Diff <2x LOR     | ----      |
|                                      |                  | Silver, total     | 7440-22-4  | E447   | 0.0000050                         | mg   | 0.0000090       | <0.0000050       | 0.0000040            | Diff <2x LOR     | ----      |
|                                      |                  | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | 0.062           | 0.066            | 0.004                | Diff <2x LOR     | ----      |
|                                      |                  | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | 0.000767        | 0.000862         | 11.6%                | 40%              | ----      |
|                                      |                  | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Titanium, total   | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                      |                  | Uranium, total    | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |



| Sub-Matrix: Air                                  |                     |                   |            |        | Laboratory Duplicate (DUP) Report |            |                 |                  |                      |                  |           |
|--|---------------------|-------------------|------------|--------|-----------------------------------|------------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                             | Client sample ID    | Analyte           | CAS Number | Method | LOR                               | Unit       | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 981658) - continued</b> |                     |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300018-001                                    | Dustfall-North      | Vanadium, total   | 7440-62-2  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Zinc, total       | 7440-66-6  | E447   | 0.0015                            | mg         | 0.0057          | 0.0068           | 0.0011               | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 981665)</b>             |                     |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300018-001                                    | Dustfall-North      | Mercury, total    | 7439-97-6  | E516   | 0.000025                          | mg         | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 993718)</b>             |                     |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300018-004                                    | Dustfall-Trip Blank | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg         | <0.0030         | <0.0030          | 0                    | Diff <2x LOR     | ----      |
|  |                     | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg         | <0.000050       | 0.000070         | 0.000020             | Diff <2x LOR     | ----      |
|  |                     | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg         | <0.000050       | 0.00125          | 185%                 | 30%              | DUP-H     |
|  |                     | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg         | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|  |                     | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg         | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|  |                     | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg         | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|  |                     | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg         | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
|  |                     | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg         | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|  |                     | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg         | <0.015          | <0.015           | 0                    | Diff <2x LOR     | ----      |
|  |                     | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg         | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
|  |                     | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg         | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|  |                     | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg         | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|  |                     | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg         | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg         | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
|  |                     | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg         | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|  |                     | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg         | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|  |                     | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg         | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
| Silver, total                                    | 7440-22-4           | E447              | 0.0000050  | mg     | <0.0000050                        | <0.0000050 | 0               | Diff <2x LOR     | ----                 |                  |           |
| Sodium, total                                    | 7440-23-5           | E447              | 0.025      | mg     | <0.025                            | <0.025     | 0               | Diff <2x LOR     | ----                 |                  |           |
| Strontium, total                                 | 7440-24-6           | E447              | 0.000050   | mg     | <0.000050                         | <0.000050  | 0               | Diff <2x LOR     | ----                 |                  |           |
| Thallium, total                                  | 7440-28-0           | E447              | 0.000050   | mg     | <0.000050                         | <0.000050  | 0               | Diff <2x LOR     | ----                 |                  |           |
| Tin, total                                       | 7440-31-5           | E447              | 0.000050   | mg     | <0.000050                         | <0.000050  | 0               | Diff <2x LOR     | ----                 |                  |           |
| Titanium, total                                  | 7440-32-6           | E447              | 0.0050     | mg     | <0.0050                           | <0.0050    | 0               | Diff <2x LOR     | ----                 |                  |           |



| Sub-Matrix: Air                                  |                     |                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|--|---------------------|-----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                             | Client sample ID    | Analyte         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 993718) - continued</b> |                     |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300018-004                                    | Dustfall-Trip Blank | Uranium, total  | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|  |                     | Vanadium, total | 7440-62-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|  |                     | Zinc, total     | 7440-66-6  | E447   | 0.0015                            | mg   | <0.0015         | <0.0015          | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 993722)</b>             |                     |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300018-004                                    | Dustfall-Trip Blank | Mercury, total  | 7439-97-6  | E516   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |

**Qualifiers**

| Qualifier | Description   |
|-----------|---|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                             | CAS Number | Method | LOR      | Unit | Result    | Qualifier |
|-------------------------------------|------------|--------|----------|------|-----------|-----------|
| <b>Particulates (QCLot: 984484)</b> |            |        |          |      |           |           |
| Dustfall, fixed insoluble           | ---        | E885   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 984485)</b> |            |        |          |      |           |           |
| Dustfall, fixed soluble             | ---        | E884   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 984486)</b> |            |        |          |      |           |           |
| Dustfall, total soluble             | ---        | E881   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 984487)</b> |            |        |          |      |           |           |
| Dustfall, total insoluble           | ---        | E882   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 996795)</b> |            |        |          |      |           |           |
| Dustfall, fixed insoluble           | ---        | E885   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 996796)</b> |            |        |          |      |           |           |
| Dustfall, fixed soluble             | ---        | E884   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 996797)</b> |            |        |          |      |           |           |
| Dustfall, total soluble             | ---        | E881   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 996798)</b> |            |        |          |      |           |           |
| Dustfall, total insoluble           | ---        | E882   | 1.9      | mg   | <1.9      | ---       |
| <b>Total Metals (QCLot: 981658)</b> |            |        |          |      |           |           |
| Aluminum, total                     | 7429-90-5  | E447   | 0.003    | mg   | <0.0030   | ---       |
| Antimony, total                     | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Arsenic, total                      | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Barium, total                       | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Beryllium, total                    | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Bismuth, total                      | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Boron, total                        | 7440-42-8  | E447   | 0.005    | mg   | <0.0050   | ---       |
| Cadmium, total                      | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020 | ---       |
| Calcium, total                      | 7440-70-2  | E447   | 0.01     | mg   | <0.010    | ---       |
| Chromium, total                     | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Cobalt, total                       | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Copper, total                       | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050  | ---       |
| Iron, total                         | 7439-89-6  | E447   | 0.015    | mg   | <0.015    | ---       |
| Lead, total                         | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025 | ---       |
| Lithium, total                      | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025   | ---       |
| Magnesium, total                    | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025   | ---       |



Sub-Matrix: Air

| Analyte   | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|---|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 981658) - continued</b> |            |        |          |      |            |           |
| Manganese, total                                | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ----      |
| Molybdenum, total                               | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ----      |
| Nickel, total                                   | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Phosphorus, total                               | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ----      |
| Potassium, total                                | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ----      |
| Selenium, total                                 | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Silicon, total                                  | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ----      |
| Silver, total                                   | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 981665)</b>             |            |        |          |      |            |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |
| <b>Total Metals (QCLot: 993718)</b>             |            |        |          |      |            |           |
| Aluminum, total                                 | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ----      |
| Antimony, total                                 | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Arsenic, total                                  | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Barium, total                                   | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Beryllium, total                                | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Bismuth, total                                  | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Boron, total                                    | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Cadmium, total                                  | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ----      |
| Calcium, total                                  | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ----      |
| Chromium, total                                 | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Cobalt, total                                   | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Copper, total                                   | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Iron, total                                     | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ----      |
| Lead, total                                     | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ----      |
| Lithium, total                                  | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ----      |
| Magnesium, total                                | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ----      |



Sub-Matrix: Air

| Analyte   | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|---|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 993718) - continued</b> |            |        |          |      |            |           |
| Manganese, total                                | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ----      |
| Molybdenum, total                               | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ----      |
| Nickel, total                                   | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Phosphorus, total                               | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ----      |
| Potassium, total                                | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ----      |
| Selenium, total                                 | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Silicon, total                                  | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ----      |
| Silver, total                                   | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 993722)</b>             |            |        |          |      |            |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |



## Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                     |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|-------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
| Analyte                             | CAS Number | Method | LOR      | Unit | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|                                     |            |        |          |      | Concentration                          | LCS          | Low                 | High |           |
| <b>Particulates (QCLot: 984484)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble           | ----       | E885   | 1.9      | mg   | 30 mg                                  | 99.0         | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 984485)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble             | ----       | E884   | 1.9      | mg   | 119 mg                                 | 106          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 984486)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble             | ----       | E881   | 1.9      | mg   | 200 mg                                 | 100          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 984487)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble           | ----       | E882   | 1.9      | mg   | 30 mg                                  | 101          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 996795)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble           | ----       | E885   | 1.9      | mg   | 30 mg                                  | 105          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 996796)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble             | ----       | E884   | 1.9      | mg   | 119 mg                                 | 110          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 996797)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble             | ----       | E881   | 1.9      | mg   | 200 mg                                 | 100          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 996798)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble           | ----       | E882   | 1.9      | mg   | 30 mg                                  | 104          | 85.0                | 115  | ----      |
| <b>Total Metals (QCLot: 981658)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                     | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 98.6         | 80.0                | 120  | ----      |
| Antimony, total                     | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 104          | 80.0                | 120  | ----      |
| Arsenic, total                      | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 102          | 80.0                | 120  | ----      |
| Barium, total                       | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 101          | 80.0                | 120  | ----      |
| Beryllium, total                    | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 100          | 80.0                | 120  | ----      |
| Bismuth, total                      | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 100          | 80.0                | 120  | ----      |
| Boron, total                        | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 92.4         | 80.0                | 120  | ----      |
| Cadmium, total                      | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 98.7         | 80.0                | 120  | ----      |
| Calcium, total                      | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 96.1         | 80.0                | 120  | ----      |
| Chromium, total                     | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 99.8         | 80.0                | 120  | ----      |
| Cobalt, total                       | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 99.1         | 80.0                | 120  | ----      |
| Copper, total                       | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 101          | 80.0                | 120  | ----      |
| Iron, total                         | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 102          | 80.0                | 120  | ----      |
| Lead, total                         | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 98.6         | 80.0                | 120  | ----      |
| Lithium, total                      | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 98.1         | 80.0                | 120  | ----      |





Sub-Matrix: Air

|   |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|   |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte   | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 981658) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Magnesium, total                                | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 95.1         | 80.0                | 120  | ----      |
| Manganese, total                                | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 100          | 80.0                | 120  | ----      |
| Molybdenum, total                               | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 103          | 80.0                | 120  | ----      |
| Nickel, total                                   | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 99.1         | 80.0                | 120  | ----      |
| Phosphorus, total                               | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 105          | 80.0                | 120  | ----      |
| Potassium, total                                | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 102          | 80.0                | 120  | ----      |
| Selenium, total                                 | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 105          | 80.0                | 120  | ----      |
| Silicon, total                                  | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 111          | 80.0                | 120  | ----      |
| Silver, total                                   | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 93.1         | 80.0                | 120  | ----      |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 104          | 80.0                | 120  | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 100          | 80.0                | 120  | ----      |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 98.8         | 80.0                | 120  | ----      |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 99.5         | 80.0                | 120  | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 91.2         | 80.0                | 120  | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 97.7         | 80.0                | 120  | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 99.8         | 80.0                | 120  | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 101          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 981665)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 109          | 70.0                | 130  | ----      |
| <b>Total Metals (QCLot: 993718)</b>             |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                                 | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 110          | 80.0                | 120  | ----      |
| Antimony, total                                 | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 113          | 80.0                | 120  | ----      |
| Arsenic, total                                  | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 117          | 80.0                | 120  | ----      |
| Barium, total                                   | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 113          | 80.0                | 120  | ----      |
| Beryllium, total                                | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 112          | 80.0                | 120  | ----      |
| Bismuth, total                                  | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 103          | 80.0                | 120  | ----      |
| Boron, total                                    | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 106          | 80.0                | 120  | ----      |
| Cadmium, total                                  | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 111          | 80.0                | 120  | ----      |
| Calcium, total                                  | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 109          | 80.0                | 120  | ----      |
| Chromium, total                                 | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 108          | 80.0                | 120  | ----      |
| Cobalt, total                                   | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 107          | 80.0                | 120  | ----      |
| Copper, total                                   | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Iron, total                                     | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 110          | 80.0                | 120  | ----      |
| Lead, total                                     | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ----      |
| Lithium, total                                  | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 109          | 80.0                | 120  | ----      |
| Magnesium, total                                | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 110          | 80.0                | 120  | ----      |



Sub-Matrix: Air

|   |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|   |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte   | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 993718) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Manganese, total                                | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 108          | 80.0                | 120  | ----      |
| Molybdenum, total                               | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 110          | 80.0                | 120  | ----      |
| Nickel, total                                   | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 106          | 80.0                | 120  | ----      |
| Phosphorus, total                               | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 115          | 80.0                | 120  | ----      |
| Potassium, total                                | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 109          | 80.0                | 120  | ----      |
| Selenium, total                                 | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 112          | 80.0                | 120  | ----      |
| Silicon, total                                  | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 116          | 80.0                | 120  | ----      |
| Silver, total                                   | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 98.0         | 80.0                | 120  | ----      |
| Sodium, total                                   | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 112          | 80.0                | 120  | ----      |
| Strontium, total                                | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 110          | 80.0                | 120  | ----      |
| Thallium, total                                 | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 105          | 80.0                | 120  | ----      |
| Tin, total                                      | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 105          | 80.0                | 120  | ----      |
| Titanium, total                                 | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 108          | 80.0                | 120  | ----      |
| Uranium, total                                  | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 108          | 80.0                | 120  | ----      |
| Vanadium, total                                 | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 109          | 80.0                | 120  | ----      |
| Zinc, total                                     | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 110          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 993722)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                  | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 102          | 70.0                | 130  | ----      |

### Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air

|                                     |                  |                |            |        | Matrix Spike (MS) Report |              |                     |      |      |           |
|-------------------------------------|------------------|----------------|------------|--------|--------------------------|--------------|---------------------|------|------|-----------|
|                                     |                  |                |            |        | Spike                    | Recovery (%) | Recovery Limits (%) |      |      |           |
| Laboratory sample ID                | Client sample ID | Analyte        | CAS Number | Method | Concentration            | Target       | MS                  | Low  | High | Qualifier |
| <b>Total Metals (QCLot: 981665)</b> |                  |                |            |        |                          |              |                     |      |      |           |
| BU2300018-002                       | Dustfall-South   | Mercury, total | 7439-97-6  | E516   | 0.000325 mg              | 0.00035 mg   | 92.9                | 70.0 | 130  | ----      |



Environmental Division  
 Burlington  
 Work Order Reference  
**BU2300018**



Telephone : + 1 905 331 3111

| Report To   |   | Report Format / Distribution     |                 |             | Service Requested  |                         |   |                      |       |   |
|---|---|----------------------------------|-----------------|-------------|--|-------------------------|---|----------------------|-------|---|
| Company: New Gold Inc.  |   |                                  |                 |             | Request Service  |                         |   |                      |       |   |
| Contact: Robyn Lloyd  |   |                                  |                 |             | Rush Service (with prior consultation) - surcharge applies |                         |   |                      |       |   |
| Address: 1361 Roen Road, Chapple, ON P0W 1A0  |   | Email 1: robyn.lloyd@newgold.com |                 |             | Other - Please contact ALS                                 |                         |   |                      |       |   |
| Phone: 807-234-8200 ext. 8029 Fax:  |   | Email 2:                         |                 |             | Analysis Request   |                         |   |                      |       |   |
| Invoice To: Same as Report  |   | Client / Project Information     |                 |             |  |                         |   |                      |       |   |
| Company:  |   | Job #:                           |                 |             |  |                         |   |                      |       |   |
| Contact:  |   | Location:                        |                 |             |  |                         |   |                      |       |   |
| Address:  |   | PO: 4500059107                   |                 |             |  |                         |   |                      |       |   |
| Phone:  |   | Sampled by:                      |                 |             |  |                         |   |                      |       |   |
| Lab Work Order #  |   | ALS Contact:                     |                 |             |  |                         |   |                      |       |   |
| Sample #  | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)               | Time<br>(hh:mm) | Sample Type | TSP and Metals<br>Pm 2.5                                   | Dustfall incl. volatile | Hazardous? Provide Data<br>Highly Contaminated? | Number of Containers |       |   |
|   | NORTH-TSP-482   | 30-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-TSP-482   | 30-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-TSP-482   | 30-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-TSP-483   | 6-May-2023                       | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-TSP-483   | 6-May-2023                       | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-TSP-483   | 6-May-2023                       | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-TSP-484   | 12-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-TSP-484   | 12-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-TSP-484   | 12-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-TSP-485   | 18-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-TSP-485   | 18-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-TSP-485   | 18-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-TSP-486   | 24-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-TSP-486   | 24-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-TSP-486   | 24-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | TRIP BLANK - MAY TSP  | 30-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-PM2.5-482   | 30-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-PM2.5-482   | 30-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-PM2.5-482   | 30-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-PM2.5-483   | 6-May-2023                       | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-PM2.5-483   | 6-May-2023                       | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-PM2.5-483   | 6-May-2023                       | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-PM2.5-484   | 12-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-PM2.5-484   | 12-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-PM2.5-484   | 12-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-PM2.5-485   | 18-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-PM2.5-485   | 18-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-PM2.5-485   | 18-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTH-PM2.5-486   | 24-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | SOUTH-PM2.5-486   | 24-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | NORTHWEST-PM2.5-486   | 24-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | TRIP BLANK - MAY PM2.5  | 30-May-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | Dustfall - Northwest  | 29-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | Dustfall - Trip Blank   | 29-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | Dustfall - North  | 29-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
|   | Dustfall - South  | 29-Apr-2023                      | 12:00           | Air         | X  |                         |   |                      |       |   |
| Special Instructions / Regulations / Hazardous Details  |   |                                  |                 |             |  |                         |   |                      |       |   |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |   |                                  |                 |             |  |                         |   |                      |       |   |
| Released by:  | Date (dd-mm-yy)   | Time (hh:mm)                     | Received by:    | Date:       | Time:  | Temperature:            | Verified by:                                    | Date:                | Time: | Observations:<br>Yes No ?<br>If Yes add SIF |
|   |   |                                  | Alan Burton     | 2-June 2023 | 12:30  | 23.9 °C                 |   |                      |       |   |



Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/04/29 - 2023/05/29  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/06/22**  
 Report #: R3353822  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C341851**

**Received: 2023/06/09, 09:45**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/06/12 | 2023/06/20 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/06/13 | 2023/06/20 | PTC SOP-00149     | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.  
 Results relate only to the items tested.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



**BUREAU  
VERITAS**

Bureau Veritas Job #: C341851  
Report Date: 2023/06/22

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | BSB071              | BSB072              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/04/29<br>12:00 | 2023/04/29<br>12:00 |     |          |
|                                  | UNITS | PRP SOUTH           | PRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.4                 | 0.3                 | 0.1 | A991384  |
| Calculated SO2                   | ppb   | <0.1                | <0.1                | 0.1 | A992138  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C341851  
Report Date: 2023/06/22

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C341851  
Report Date: 2023/06/22

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| A991384     | SDK  | Spiked Blank | Calculated NO2 |               |       | 100      | %     | 90 - 110  |
| A991384     | SDK  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |
| A992138     | OZ   | Spiked Blank | Calculated SO2 |               |       | 102      | %     | 90 - 110  |
| A992138     | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C341851  
Report Date: 2023/06/22

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

---

Yang Liu, Analyst II

---

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.





## Confirmation of Sample Receipt

Bureau Veritas Job Number: C351551

Job Received: 2023/07/10

Final Report Due: 2023/07/20

Disposal Date: 2023/08/14

### Invoice Information


Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com

### Report Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com  
robyn.lloyd@newgold.com

### Project Information

**Quote #:** C21563  
**PO/AFE#:** 4500022601  
**Project #:** TC111504.2015.6  
**Site Location:** NEW GOLD - EMO, ON  
**Site #:** 2023/05/29 - 2023/06/30  
**Sampled By:** N/A



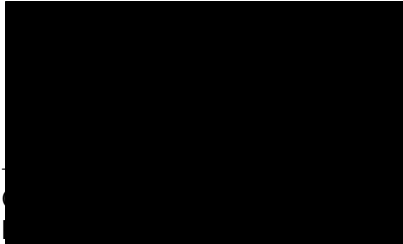
New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 03-MAY-23  
Report Date: 30-MAY-23 13:57 (MT)  
Version: FINAL

Client Phone: 807-234-8200


# Certificate of Analysis

Lab Work Order #: L2750379  
Project P.O. #: 4700001830  
Job Reference:  
C of C Numbers:  
Legal Site Desc:



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ADDRESS: 1435 Noriohn Court, Unit 1, Burlington, ON, L7L 0F6, Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2750379-1 NORTH-TSP-477<br>Sampled By: Client on 31-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 44400  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 144    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 1230   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 39.9   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | 4.2    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 29.1   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-2 NORTH-TSP-478<br>Sampled By: Client on 06-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 34300  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 184    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 770    |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 29.7   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | 5.5    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 39.5   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-3 NORTH-TSP-479<br>Sampled By: Client on 12-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 42200  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 177    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 1160   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 46.8   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | 4.1    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 33.5   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2750379-4 NORTH-TSP-480<br>Sampled By: Client on 18-APR-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 6900   |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 179    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 287    |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 6.3    |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 18.6   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-5 NORTH-TSP-481<br>Sampled By: Client on 24-APR-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 19600  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 140    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 165    |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 4.0    |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 8.0    |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-6 SOUTH-TSP-477<br>Sampled By: Client on 31-MAR-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 71500  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | 5.0    |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 79.7   |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 3730   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 116    |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | 4.1    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | 3.3    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | 8.5    |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 44.9   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2750379-7 SOUTH-TSP-478<br>Sampled By: Client on 06-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 11000  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 294    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 473    |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 12.1   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 25.7   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-8 SOUTH-TSP-479<br>Sampled By: Client on 12-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 126000 |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | 11.8   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 198    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 3800   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 124    |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | 6.7    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | 4.5    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | 7.0    |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 51.3   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-9 SOUTH-TSP-480<br>Sampled By: Client on 18-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 97400  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | 5.7    |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | 132    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 2770   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | 101    |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | 4.1    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | 8.1    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | 5.4    |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | 73.4   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2750379-10 SOUTH-TSP-481<br>Sampled By: Client on 24-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 38900  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)   | 173    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)   | 653    |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)  | 23.6   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)   | 3.1    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)   | 25.4   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-11 NORTHWEST-TSP-477<br>Sampled By: Client on 31-MAR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 2700   |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)   | 129    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)   | 331    |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)  | 11.0   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)   | 14.8   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-12 NORTHWEST-TSP-478<br>Sampled By: Client on 06-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 10100  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)   | 220    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)   | 554    |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)  | 13.9   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)   | 21.9   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2750379-13 NORTHWEST-TSP-479<br>Sampled By: Client on 12-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 41900  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)   | 6.6    |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)   | 370    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)   | 1490   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)  | 47.7   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)   | 3.5    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)   | 26.6   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-14 NORTHWEST-TSP-480<br>Sampled By: Client on 18-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 243000 |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)   | 3.5    |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)   | 54.9   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)   | 310    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)   | 7070   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)  | 165    |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)   | 24.6   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)   | 3.5    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)  | 13.6   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)   | 64.4   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-15 NORTHWEST-TSP-481<br>Sampled By: Client on 24-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 64700  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)   | 11.8   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)   | 267    |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)   | 1790   |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)  | 41.7   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)   | 5.9    |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)   | 19.9   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2750379-16 TSP-TRIP BLANK-APRIL<br>Sampled By: Client on 30-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 03-MAY-23 | R5952820 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Copper (Cu)  | <4.0   |            | 4.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Iron (Fe)  | 33     |            | 20   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Manganese (Mn)   | <1.0   |            | 1.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| Zinc (Zn)  | <5.0   |            | 5.0  | ug    | 24-MAY-23 | 24-MAY-23 | R5953160 |
| L2750379-17 NORTH-PM2.5-477<br>Sampled By: Client on 31-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 67     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-18 NORTH-PM2.5-478<br>Sampled By: Client on 06-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 39     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-19 NORTH-PM2.5-479<br>Sampled By: Client on 12-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 180    |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-20 NORTH-PM2.5-480<br>Sampled By: Client on 18-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 53     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-21 NORTH-PM2.5-481<br>Sampled By: Client on 24-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 67     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-22 SOUTH-PM2.5-477<br>Sampled By: Client on 31-MAR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 61     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-23 SOUTH-PM2.5-478<br>Sampled By: Client on 06-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                             |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2750379-23 SOUTH-PM2.5-478<br>Sampled By: Client on 06-APR-23<br>Matrix: 47mm Filter<br>Total particulate   | 32     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-24 SOUTH-PM2.5-479<br>Sampled By: Client on 12-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 165    |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-25 SOUTH-PM2.5-480<br>Sampled By: Client on 18-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 73     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-26 SOUTH-PM2.5-481<br>Sampled By: Client on 24-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 77     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-27 NORTHWEST-PM2.5-480<br>Sampled By: Client on 18-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate    | 96     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-28 NORTHWEST-PM2.5-481<br>Sampled By: Client on 24-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate    | 53     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
| L2750379-29 PM2.5-TRIP BLANK-APRIL<br>Sampled By: Client on 30-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 48     |            | 15   | ug    |           | 03-MAY-23 | R5953159 |
|  |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample  
mg/kg wwt - milligrams per kilogram based on wet weight of sample  
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight  
mg/L - unit of concentration based on volume, parts per million.  
< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

# Quality Control Report

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|--|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>   |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>   | <b>R5953160</b> |                   |        |           |       |     |        |           |
| <b>WG3784653-3</b>   | <b>DUP</b>      | <b>L2750379-1</b> |        |           |       |     |        |           |
| Arsenic (As)   |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 24-MAY-23 |
| Cadmium (Cd)   |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 24-MAY-23 |
| Cobalt (Co)  |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 24-MAY-23 |
| Chromium (Cr)  |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 24-MAY-23 |
| Copper (Cu)  |                 | 144               | 158    |           | ug    | 9.6 | 20     | 24-MAY-23 |
| Iron (Fe)  |                 | 1230              | 1340   |           | ug    | 8.4 | 25     | 24-MAY-23 |
| Manganese (Mn)   |                 | 39.9              | 42.2   |           | ug    | 5.5 | 20     | 24-MAY-23 |
| Nickel (Ni)  |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 24-MAY-23 |
| Lead (Pb)  |                 | 4.2               | 3.7    |           | ug    | 12  | 20     | 24-MAY-23 |
| Selenium (Se)  |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 24-MAY-23 |
| Vanadium (V)   |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 24-MAY-23 |
| Zinc (Zn)  |                 | 29.1              | 30.5   |           | ug    | 4.7 | 20     | 24-MAY-23 |
| <b>WG3784653-2</b>   | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)   |                 |                   | 117.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Cadmium (Cd)   |                 |                   | 120.4  | G         | %     |     | 80-120 | 24-MAY-23 |
| Cobalt (Co)  |                 |                   | 118.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Chromium (Cr)  |                 |                   | 119.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Copper (Cu)  |                 |                   | 120.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Iron (Fe)  |                 |                   | 118.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Manganese (Mn)   |                 |                   | 115.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Nickel (Ni)  |                 |                   | 119.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Lead (Pb)  |                 |                   | 115.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Selenium (Se)  |                 |                   | 120.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Vanadium (V)   |                 |                   | 118.0  |           | %     |     | 80-120 | 24-MAY-23 |
| Zinc (Zn)  |                 |                   | 124.5  | G         | %     |     | 80-120 | 24-MAY-23 |
| COMMENTS: Recoveries for some analytical targets are outside ALS DQOs. In addition, most analyte recoveries are at the top end of the allowable range. This points to a likely over-spiking of the sample. MS recoveries are in control. This is not expected to indicate any impact to data quality. PE 29-May-23 |                 |                   |        |           |       |     |        |           |
| <b>WG3784653-1</b>   | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)   |                 |                   | <3.0   |           | ug    |     | 3      | 24-MAY-23 |
| Cadmium (Cd)   |                 |                   | <0.027 |           | ug    |     | 0.027  | 24-MAY-23 |
| Cobalt (Co)  |                 |                   | <0.030 |           | ug    |     | 0.03   | 24-MAY-23 |
| Chromium (Cr)  |                 |                   | <3.4   |           | ug    |     | 3.4    | 24-MAY-23 |
| Copper (Cu)  |                 |                   | <1.0   |           | ug    |     | 1      | 24-MAY-23 |
| Iron (Fe)  |                 |                   | <12    |           | ug    |     | 12     | 24-MAY-23 |

# Quality Control Report

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| Test                       | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>     |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5953160</b> |                    |        |           |       |     |        |           |
| <b>WG3784653-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Manganese (Mn)             |                 |                    | <0.45  |           | ug    |     | 0.45   | 24-MAY-23 |
| Nickel (Ni)                |                 |                    | <0.25  |           | ug    |     | 0.25   | 24-MAY-23 |
| Lead (Pb)                  |                 |                    | <0.12  |           | ug    |     | 0.12   | 24-MAY-23 |
| Selenium (Se)              |                 |                    | <1.3   |           | ug    |     | 1.25   | 24-MAY-23 |
| Vanadium (V)               |                 |                    | <5.0   |           | ug    |     | 10     | 24-MAY-23 |
| Zinc (Zn)                  |                 |                    | <4.5   |           | ug    |     | 4.5    | 24-MAY-23 |
| <b>WG3784653-4</b>         | <b>MS</b>       | <b>L2750379-1</b>  |        |           |       |     |        |           |
| Arsenic (As)               |                 |                    | 106.8  |           | %     |     | 75-125 | 24-MAY-23 |
| Cadmium (Cd)               |                 |                    | 110.1  |           | %     |     | 75-125 | 24-MAY-23 |
| Cobalt (Co)                |                 |                    | 105.7  |           | %     |     | 75-125 | 24-MAY-23 |
| Chromium (Cr)              |                 |                    | 107.3  |           | %     |     | 75-125 | 24-MAY-23 |
| Copper (Cu)                |                 |                    | N/A    | MS-B      | %     |     | -      | 24-MAY-23 |
| Iron (Fe)                  |                 |                    | N/A    | MS-B      | %     |     | -      | 24-MAY-23 |
| Manganese (Mn)             |                 |                    | 120.3  |           | %     |     | 75-125 | 24-MAY-23 |
| Nickel (Ni)                |                 |                    | 108.0  |           | %     |     | 75-125 | 24-MAY-23 |
| Lead (Pb)                  |                 |                    | 108.7  |           | %     |     | 75-125 | 24-MAY-23 |
| Selenium (Se)              |                 |                    | 109.6  |           | %     |     | 75-125 | 24-MAY-23 |
| Vanadium (V)               |                 |                    | 106.3  |           | %     |     | 75-125 | 24-MAY-23 |
| Zinc (Zn)                  |                 |                    | 118.7  |           | %     |     | 75-125 | 24-MAY-23 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5952820</b> |                    |        |           |       |     |        |           |
| <b>WG3784613-2</b>         | <b>DUP</b>      | <b>L2750379-1</b>  |        |           |       |     |        |           |
| Total particulate          |                 | 44400              | 44400  |           | ug    | 0.0 | 5      | 03-MAY-23 |
| <b>WG3784613-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <100   |           | ug    |     | 100    | 03-MAY-23 |
| <b>PART-M212 F-GRAV-BU</b> |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5953159</b> |                    |        |           |       |     |        |           |
| <b>WG3784656-2</b>         | <b>DUP</b>      | <b>L2750379-17</b> |        |           |       |     |        |           |
| Total particulate          |                 | 67                 | 67     |           | ug    | 0.0 | 10     | 03-MAY-23 |
| <b>WG3784656-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <15    |           | ug    |     | 15     | 03-MAY-23 |

# Quality Control Report

Workorder: L2750379

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description  |
|-----------|--|
| G         | QC result did not meet ALS DQO. Refer to narrative comments for further information.               |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

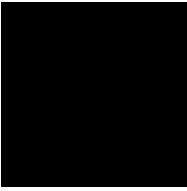


L2750379-COFC



Chain of Custody / Analytical Request Form  
 1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
 Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

| Report To   |   | Report Format / Distribution    |                |               |                | Service Requested  |                         |                         |                      |   |  |  |
|---|---|---------------------------------|----------------|---------------|----------------|--|-------------------------|-------------------------|----------------------|---|--|--|
| Company: New Gold Inc.  |   | Email 1: robyn.loyd@newgold.com |                |               |                | Regular Service  |                         |                         |                      |   |  |  |
| Contact: Robyn Lloyd  |   | Email 2:                        |                |               |                | Rush Service (with prior consultation) - surcharge applies |                         |                         |                      |   |  |  |
| Address: 11361 Roen Road, Chapple, ON P0W 1A0   |   | Client / Project information    |                |               |                | Other - Please contact ALS                                 |                         |                         |                      |   |  |  |
| Phone: 1807-234-8200 ext. 8029 Fax:   |   | Job #: Air Quality              |                |               |                | Analysis Request   |                         |                         |                      |   |  |  |
| Invoice To: Same as Report  |   | Location:                       |                |               |                | TSP and Metals   |                         |                         |                      |   |  |  |
| Company:  |   | PO: 4500059107                  |                |               |                | Pm 2.5   |                         |                         |                      |   |  |  |
| Contact:  |   | Sampled by:                     |                |               |                | Dustfall incl. volatile                                    |                         |                         |                      |   |  |  |
| Address:  |   | ALS Contact:                    |                |               |                | Hazardous? Provide Data                                    |                         |                         |                      |   |  |  |
| Phone: Fax:   |   |                                 |                |               |                | Highly Contaminated?                                       |                         |                         |                      |   |  |  |
| Lab Work Order #  |   |                                 |                |               |                | Number of Containers                                       |                         |                         |                      |   |  |  |
| Sample #  | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)              | Time<br>(H:MM) | Sample Type   | TSP and Metals | Pm 2.5   | Dustfall incl. volatile | Hazardous? Provide Data | Highly Contaminated? | Number of Containers                          |  |  |
|   | NORTH-TSP-477   | 31-Mar-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | SOUTH-TSP-477   | 31-Mar-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTHWEST-TSP-477   | 31-Mar-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTH-TSP-478   | 6-Apr-2023                      | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | SOUTH-TSP-478   | 6-Apr-2023                      | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTHWEST-TSP-478   | 6-Apr-2023                      | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTH-TSP-479   | 12-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | SOUTH-TSP-479   | 12-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTHWEST-TSP-479   | 12-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTH-TSP-480   | 18-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | SOUTH-TSP-480   | 18-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTHWEST-TSP-480   | 18-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTH-TSP-481   | 24-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | SOUTH-TSP-481   | 24-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTHWEST-TSP-481   | 24-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | TRIP BLANK - APRIL TSP  | 30-Apr-2023                     | 12:00          | Air           | X              |  |                         |                         |                      |   |  |  |
|   | NORTH-PM2.5-477   | 31-Mar-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | SOUTH-PM2.5-477   | 31-Mar-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | NORTH-PM2.5-478   | 6-Apr-2023                      | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | SOUTH-PM2.5-478   | 6-Apr-2023                      | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | NORTH-PM2.5-479   | 12-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | SOUTH-PM2.5-479   | 12-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | NORTH-PM2.5-480   | 18-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | SOUTH-PM2.5-480   | 18-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | NORTHWEST-PM2.5-480   | 18-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | NORTH-PM2.5-481   | 24-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | SOUTH-PM2.5-481   | 24-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | NORTHWEST-PM2.5-481   | 24-Apr-2023                     | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | TRIP BLANK - APRIL PM2.5  | 30-Apr-23                       | 12:00          | Air           | X              | X  |                         |                         |                      |   |  |  |
|   | Dustfall - Gallinger Road   | 29-Apr-2023                     | 12:00          | Air           |                |  | X                       |                         |                      |   |  |  |
|   | Dustfall - Tail Road (South)  | 29-Apr-2023                     | 12:00          | Air           |                |  | X                       |                         |                      |   |  |  |
|   | Dustfall - Northwest  | 29-Apr-2023                     | 12:00          | Air           |                |  | X                       |                         |                      |   |  |  |
|   | Dustfall - Trip Blank   | 29-Apr-2023                     | 12:00          | Air           |                |  | X                       |                         |                      |   |  |  |
| Special Instructions / Regulations / Hazardous Details  |   |                                 |                |               |                |  |                         |                         |                      |   |  |  |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |   |                                 |                |               |                |  |                         |                         |                      |   |  |  |
| Released by:  | Date (dd-mm-yy)   | Time (h:m)                      | Received by:   | Date:         | Time:          | Temperature:   | Verified by:            | Date:                   | Time:                | Observations:<br>Yes / No ?<br>If Yes add SIF |  |  |
|   |   |                                 | RALPH BURTON   | 3-MAY<br>2023 | 14:00          | 17.9<br>°C   |                         |                         |                      |   |  |  |



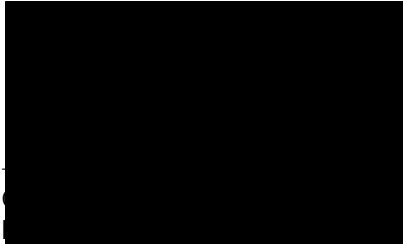
New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 02-JUN-23  
Report Date: 26-JUN-23 11:47 (MT)  
Version: FINAL

Client Phone: 807-234-8200


# Certificate of Analysis

Lab Work Order #: L2751033  
Project P.O. #: 4500059107  
Job Reference:  
C of C Numbers:  
Legal Site Desc:



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ADDRESS: 1435 Noriohn Court, Unit 1, Burlington, ON, L7L 0F6, Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751033-1 NORTH-TSP-482<br>Sampled By: Client on 30-APR-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 28300  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 129    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 224    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 6.6    |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | 3.5    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 12.7   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-2 NORTH-TSP-483<br>Sampled By: Client on 06-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 25000  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 42.4   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 449    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 12.0   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 12.4   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-3 NORTH-TSP-484<br>Sampled By: Client on 12-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 28100  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 73.4   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 200    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 6.0    |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 11.4   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751033-4 NORTH-TSP-485<br>Sampled By: Client on 18-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 94200  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 142    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 385    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 17.7   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 43.7   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-5 NORTH-TSP-486<br>Sampled By: Client on 24-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 32400  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 82.8   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 269    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 9.6    |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 13.2   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-6 SOUTH-TSP-482<br>Sampled By: Client on 30-APR-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 219000 |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | 3.3    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | 2.6    |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | 14.1   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 97.7   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 7200   |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 220    |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | 11.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | 5.2    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | 13.5   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 106    |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751033-7 SOUTH-TSP-483<br>Sampled By: Client on 06-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 24300  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 67.1   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 432    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 13.4   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 12.1   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-8 SOUTH-TSP-484<br>Sampled By: Client on 12-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 25800  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 72.0   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 290    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 8.2    |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 8.7    |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-9 SOUTH-TSP-485<br>Sampled By: Client on 18-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 88200  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 203    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 707    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | 23.6   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 25.4   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751033-10 SOUTH-TSP-486<br>Sampled By: Client on 24-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 47700  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)   | 104    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)   | 621    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)  | 15.5   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)   | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)   | 8.8    |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-11 NORTHWEST-TSP-482<br>Sampled By: Client on 30-APR-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 39000  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)   | 7.6    |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)   | 179    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)   | 950    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)  | 23.4   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)   | 3.5    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)   | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)   | 25.5   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-12 NORTHWEST-TSP-483<br>Sampled By: Client on 06-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 194000 |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)   | 3.6    |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)   | 53.6   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)   | 60.8   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)   | 8150   |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)  | 198    |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)   | 22.5   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)   | 3.6    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)   | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)  | 17.1   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)   | 46.8   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751033-13 NORTHWEST-TSP-484<br>Sampled By: Client on 12-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 167000 |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)   | 3.0    |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)   | 44.6   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)   | 158    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)   | 6350   |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)  | 164    |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)   | 20.1   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)   | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)  | 12.6   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)   | 41.8   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-14 NORTHWEST-TSP-485<br>Sampled By: Client on 18-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 102000 |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)   | 6.5    |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)   | 347    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)   | 977    |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)  | 32.3   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)   | 3.8    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)   | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)   | 45.5   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-15 NORTHWEST-TSP-486<br>Sampled By: Client on 24-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 94200  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)   | 5.4    |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)   | 94.5   |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)   | 1540   |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)  | 59.4   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)   | 3.2    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)   | 3.2    |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)   | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)   | 32.6   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751033-16 TSP-MAY TRIP BLANK<br>Sampled By: Client on 30-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 14-JUN-23 | R5957796 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Copper (Cu)  | 9.6    |            | 4.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Iron (Fe)  | 35     |            | 20   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Manganese (Mn)   | <1.0   |            | 1.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Selenium (Se)  | <10    |            | 10   | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| Zinc (Zn)  | 6.0    |            | 5.0  | ug    | 20-JUN-23 | 21-JUN-23 | R5958320 |
| L2751033-17 NORTH-PM2.5-482<br>Sampled By: Client on 30-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 61     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-18 NORTH-PM2.5-483<br>Sampled By: Client on 06-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 78     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-19 NORTH-PM2.5-484<br>Sampled By: Client on 12-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 100    |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-20 NORTH-PM2.5-485<br>Sampled By: Client on 18-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 877    |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-21 NORTH-PM2.5-486<br>Sampled By: Client on 24-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 83     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-22 SOUTH-PM2.5-482<br>Sampled By: Client on 30-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 82     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-23 SOUTH-PM2.5-483<br>Sampled By: Client on 06-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                           |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751033-23 SOUTH-PM2.5-483<br>Sampled By: Client on 06-MAY-23<br>Matrix: 47mm Filter<br>Total particulate   | 75     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-24 SOUTH-PM2.5-484<br>Sampled By: Client on 12-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 90     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-25 SOUTH-PM2.5-485<br>Sampled By: Client on 18-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 916    |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-26 SOUTH-PM2.5-486<br>Sampled By: Client on 24-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate      | 69     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-27 NORTHWEST-PM2.5-482<br>Sampled By: Client on 30-APR-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 79     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-28 NORTHWEST-PM2.5-483<br>Sampled By: Client on 06-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 150    |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-29 NORTHWEST-PM2.5-484<br>Sampled By: Client on 12-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 197    |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-30 NORTHWEST-PM2.5-485<br>Sampled By: Client on 18-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 842    |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-31 NORTHWEST-PM2.5-486<br>Sampled By: Client on 24-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate  | 91     |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
| L2751033-32 PM2.5-MAY TRIP BLANK<br>Sampled By: Client on 30-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <15    |            | 15   | ug    |           | 02-JUN-23 | R5958416 |
|  |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

**Test Method References:**

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

**Chain of Custody Numbers:**
**GLOSSARY OF REPORT TERMS**

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

# Quality Control Report

Workorder: L2751033

Report Date: 26-JUN-23

Page 1 of 3

Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5958320</b> |                   |        |           |       |     |        |           |
| <b>WG3785480-3</b>     | <b>DUP</b>      | <b>L2751033-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Copper (Cu)            |                 | 129               | 129    |           | ug    | 0.3 | 20     | 21-JUN-23 |
| Iron (Fe)              |                 | 224               | 233    |           | ug    | 3.9 | 25     | 21-JUN-23 |
| Manganese (Mn)         |                 | 6.6               | 6.7    |           | ug    | 0.7 | 20     | 21-JUN-23 |
| Nickel (Ni)            |                 | 3.5               | <3.0   | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 21-JUN-23 |
| Zinc (Zn)              |                 | 12.7              | 14.4   |           | ug    | 12  | 20     | 21-JUN-23 |
| <b>WG3785480-2</b>     |                 | <b>LCS</b>        |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 97.2   |           | %     |     | 80-120 | 21-JUN-23 |
| Cadmium (Cd)           |                 |                   | 101.8  |           | %     |     | 80-120 | 21-JUN-23 |
| Cobalt (Co)            |                 |                   | 101.0  |           | %     |     | 80-120 | 21-JUN-23 |
| Chromium (Cr)          |                 |                   | 98.5   |           | %     |     | 80-120 | 21-JUN-23 |
| Copper (Cu)            |                 |                   | 104.0  |           | %     |     | 80-120 | 21-JUN-23 |
| Iron (Fe)              |                 |                   | 96.0   |           | %     |     | 80-120 | 21-JUN-23 |
| Manganese (Mn)         |                 |                   | 94.7   |           | %     |     | 80-120 | 21-JUN-23 |
| Nickel (Ni)            |                 |                   | 96.7   |           | %     |     | 80-120 | 21-JUN-23 |
| Lead (Pb)              |                 |                   | 101.0  |           | %     |     | 80-120 | 21-JUN-23 |
| Selenium (Se)          |                 |                   | 93.8   |           | %     |     | 80-120 | 21-JUN-23 |
| Vanadium (V)           |                 |                   | 97.1   |           | %     |     | 80-120 | 21-JUN-23 |
| Zinc (Zn)              |                 |                   | 99.5   |           | %     |     | 80-120 | 21-JUN-23 |
| <b>WG3785480-1</b>     |                 | <b>MB</b>         |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 21-JUN-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 21-JUN-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 21-JUN-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 21-JUN-23 |
| Copper (Cu)            |                 |                   | 2.8    | A         | ug    |     | 1      | 21-JUN-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 21-JUN-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 21-JUN-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 21-JUN-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 21-JUN-23 |



# Quality Control Report

Workorder: L2751033

Report Date: 26-JUN-23

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| Test  | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|---|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>  |                 |                    |        |           |       |     |        |           |
|   | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>  | <b>R5958320</b> |                    |        |           |       |     |        |           |
| <b>WG3785480-1</b>  | <b>MB</b>       |                    |        |           |       |     |        |           |
| Selenium (Se)   |                 |                    | <1.3   |           | ug    |     | 1.25   | 21-JUN-23 |
| Vanadium (V)  |                 |                    | <5.0   |           | ug    |     | 10     | 21-JUN-23 |
| Zinc (Zn)   |                 |                    | <4.5   |           | ug    |     | 4.5    | 21-JUN-23 |
| COMMENTS: Cu observed in the blank above the LOR. Sample data is more than 10x this potential background. Impact to data quality is expected to be negligible. SA 22-Jun-23 |                 |                    |        |           |       |     |        |           |
| <b>WG3785480-4</b>  | <b>MS</b>       | <b>L2751033-1</b>  |        |           |       |     |        |           |
| Arsenic (As)  |                 |                    | 95.8   |           | %     |     | 75-125 | 21-JUN-23 |
| Cadmium (Cd)  |                 |                    | 102.9  |           | %     |     | 75-125 | 21-JUN-23 |
| Cobalt (Co)   |                 |                    | 98.7   |           | %     |     | 75-125 | 21-JUN-23 |
| Chromium (Cr)   |                 |                    | 97.7   |           | %     |     | 75-125 | 21-JUN-23 |
| Copper (Cu)   |                 |                    | N/A    | MS-B      | %     |     | -      | 21-JUN-23 |
| Iron (Fe)   |                 |                    | 95.0   |           | %     |     | 75-125 | 21-JUN-23 |
| Manganese (Mn)  |                 |                    | 96.3   |           | %     |     | 75-125 | 21-JUN-23 |
| Nickel (Ni)   |                 |                    | 93.3   |           | %     |     | 75-125 | 21-JUN-23 |
| Lead (Pb)   |                 |                    | 97.2   |           | %     |     | 75-125 | 21-JUN-23 |
| Selenium (Se)   |                 |                    | 96.9   |           | %     |     | 75-125 | 21-JUN-23 |
| Vanadium (V)  |                 |                    | 95.7   |           | %     |     | 75-125 | 21-JUN-23 |
| Zinc (Zn)   |                 |                    | 98.9   |           | %     |     | 75-125 | 21-JUN-23 |
| <b>PART-HIVOL-GRAV-BU</b>   |                 |                    |        |           |       |     |        |           |
|   | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>  | <b>R5957796</b> |                    |        |           |       |     |        |           |
| <b>WG3785429-2</b>  | <b>DUP</b>      | <b>L2751033-1</b>  |        |           |       |     |        |           |
| Total particulate   |                 | 28300              | 28300  |           | ug    | 0.0 | 5      | 14-JUN-23 |
| <b>WG3785429-1</b>  | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate   |                 |                    | <100   |           | ug    |     | 100    | 14-JUN-23 |
| <b>PART-M212 F-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|   | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>  | <b>R5958416</b> |                    |        |           |       |     |        |           |
| <b>WG3785547-2</b>  | <b>DUP</b>      | <b>L2751033-17</b> |        |           |       |     |        |           |
| Total particulate   |                 | 61                 | 61     |           | ug    | 0.0 | 10     | 02-JUN-23 |
| <b>WG3785547-1</b>  | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate   |                 |                    | <15    |           | ug    |     | 15     | 02-JUN-23 |

# Quality Control Report

Workorder: L2751033

Report Date: 26-JUN-23

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

---

| Qualifier | Description  |
|-----------|--|
| A         | Method Blank exceeds ALS DQO. Refer to narrative comments for further information.                 |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

---

## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

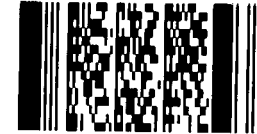
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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Environmental Division  
 Burlington  
 Work Order Reference  
**BU2300018**



Telephone : + 1 905 331 3111

| <b>Report To</b>                             |   | <b>Report Format / Distribution</b> |                 |             | <b>Service Requested</b>                                   |        |                         |                          |                      |                      |  |
|--|---|-------------------------------------|-----------------|-------------|--|--------|-------------------------|--------------------------|----------------------|----------------------|--|
| Company: New Gold Inc.                       |   |                                     |                 |             | Regular Service  |        |                         |                          |                      |                      |  |
| Contact: Robyn Lloyd                         |   |                                     |                 |             | Rush Service (with prior consultation) - surcharge applies |        |                         |                          |                      |                      |  |
| Address: 1361 Roen Road, Chapple, ON P0W 1A0 |   | Email 1: robyn.lloyd@newgold.com    |                 |             | Other - Please contact ALS                                 |        |                         |                          |                      |                      |  |
| Phone: 807-234-8200 ext. 8029 Fax:           |   | Email 2:                            |                 |             | <b>Analysis Request</b>                                    |        |                         |                          |                      |                      |  |
| Invoice To: Same as Report                   |   | <b>Client / Project Information</b> |                 |             | TSP and Metals   |        |                         |                          |                      |                      |  |
| Company:                                     |   | Job #: Air Quality                  |                 |             | Pm 2.5   |        |                         |                          |                      |                      |  |
| Contact:                                     |   | Location:                           |                 |             | Dustfall incl. volatile                                    |        |                         |                          |                      |                      |  |
| Address:                                     |   | PO: 4500059107                      |                 |             | Hazardous? Provide Delta                                   |        |                         |                          |                      |                      |  |
| Phone: Fax:                                  |   | Sampled by:                         |                 |             | Highly Contaminated?                                       |        |                         |                          |                      |                      |  |
| Lab Work Order #                             |   | ALS Contact:                        |                 |             | Number of Containers                                       |        |                         |                          |                      |                      |  |
| Sample #                                     | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)                  | Time<br>(hh:mm) | Sample Type | TSP and Metals   | Pm 2.5 | Dustfall incl. volatile | Hazardous? Provide Delta | Highly Contaminated? | Number of Containers |  |
|  | NORTH-TSP-482   | 30-Apr-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | SOUTH-TSP-482   | 30-Apr-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTHWEST-TSP-482   | 30-Apr-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTH-TSP-483   | 6-May-2023                          | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | SOUTH-TSP-483   | 6-May-2023                          | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTHWEST-TSP-483   | 6-May-2023                          | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTH-TSP-484   | 12-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | SOUTH-TSP-484   | 12-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTHWEST-TSP-484   | 12-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTH-TSP-485   | 18-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | SOUTH-TSP-485   | 18-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTHWEST-TSP-485   | 18-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTH-TSP-486   | 24-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | SOUTH-TSP-486   | 24-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTHWEST-TSP-486   | 24-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | TRIP BLANK - MAY TSP  | 30-May-2023                         | 12:00           | Air         | X  |        |                         |                          |                      |                      |  |
|  | NORTH-PM2.5-482   | 30-Apr-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | SOUTH-PM2.5-482   | 30-Apr-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTHWEST-PM2.5-482   | 30-Apr-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTH-PM2.5-483   | 6-May-2023                          | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | SOUTH-PM2.5-483   | 6-May-2023                          | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTHWEST-PM2.5-483   | 6-May-2023                          | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTH-PM2.5-484   | 12-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | SOUTH-PM2.5-484   | 12-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTHWEST-PM2.5-484   | 12-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTH-PM2.5-485   | 18-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | SOUTH-PM2.5-485   | 18-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTHWEST-PM2.5-485   | 18-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTH-PM2.5-486   | 24-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | SOUTH-PM2.5-486   | 24-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | NORTHWEST-PM2.5-486   | 24-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | TRIP BLANK - MAY PM2.5  | 30-May-2023                         | 12:00           | Air         | X  | X      |                         |                          |                      |                      |  |
|  | Dustfall- Northwest   | 29-Apr-2023                         | 12:00           | Air         |  |        | X                       |                          |                      |                      |  |
|  | Dustfall - Trip Blank   | 29-Apr-2023                         | 12:00           | Air         |  |        | X                       |                          |                      |                      |  |
|  | Dustfall - North  | 29-Apr-2023                         | 12:00           | Air         |  |        | X                       |                          |                      |                      |  |
|  | Dustfall - South  | 29-Apr-2023                         | 12:00           | Air         |  |        | X                       |                          |                      |                      |  |




L2751033-COFC

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

| Released by: | Date (dd-mm-yy) | Time (hh:mm) | Received by:  | Date:       | Time: | Temperature: | Verified by: | Date: | Time: | Observations:<br>Yes / No ?<br>If Yes add SIF |
|--------------|-----------------|--------------|---------------|-------------|-------|--------------|--------------|-------|-------|---|
|              |                 |              | Ashley Burton | 2-June 2023 | 12:30 | 23.9 °C      |              |       |       |   |



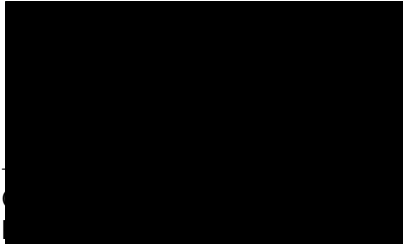
New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 06-JUL-23  
Report Date: 27-JUL-23 15:38 (MT)  
Version: FINAL

Client Phone: 807-234-8200


# Certificate of Analysis

Lab Work Order #: L2751647  
Project P.O. #: 4700001830  
Job Reference:  
C of C Numbers:  
Legal Site Desc:



[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1435 Noriohn Court, Unit 1, Burlington, ON, L7L 0F6, Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-1 NORTH-TSP-487<br>Sampled By: Client on 30-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 53700  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 131    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 558    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 22.5   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | 3.0    |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 27.6   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-2 NORTH-TSP-488<br>Sampled By: Client on 05-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 44700  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 126    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 122    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 5.2    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 13.2   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-3 NORTH-TSP-489<br>Sampled By: Client on 11-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 30300  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 189    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 116    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 5.0    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 10.8   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-4 NORTH-TSP-490<br>Sampled By: Client on 17-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 54100  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 182    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 531    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 20.2   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 23.3   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-5 NORTH-TSP-491<br>Sampled By: Client on 23-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 22500  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 192    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 194    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 6.9    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 12.3   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-6 NORTH-TSP-492<br>Sampled By: Client on 29-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 39900  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 131    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 287    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 13.1   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 21.6   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-7 SOUTH-TSP-487<br>Sampled By: Client on 30-MAY-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 47700  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 116    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 576    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 18.2   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 13.2   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-8 SOUTH-TSP-488<br>Sampled By: Client on 05-JUN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 44700  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 143    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 198    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 7.0    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 15.5   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-9 SOUTH-TSP-489<br>Sampled By: Client on 11-JUN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 98100  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)  | 5.1    |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)  | 234    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)  | 2360   |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)   | 77.4   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)  | 3.8    |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)  | 5.1    |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)  | 52.7   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-10 SOUTH-TSP-490<br>Sampled By: Client on 17-JUN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 60000  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 149    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 878    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 24.9   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 19.6   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-11 SOUTH-TSP-491<br>Sampled By: Client on 23-JUN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 63700  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 134    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 1150   |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 42.5   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | 5.9    |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 40.1   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-12 SOUTH-TSP-492<br>Sampled By: Client on 29-JUN-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 32500  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 136    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 194    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 8.3    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 17.4   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-13 NORTHWEST-TSP-487<br>Sampled By: Client on 30-MAY-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 46300  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 222    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 415    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 16.9   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 12.9   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-14 NORTHWEST-TSP-488<br>Sampled By: Client on 05-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 67300  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 146    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 585    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 22.4   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 20.2   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-15 NORTHWEST-TSP-489<br>Sampled By: Client on 11-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 27400  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 411    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 144    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 5.0    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 9.6    |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-16 NORTHWEST-TSP-490<br>Sampled By: Client on 17-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 124000 |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | 11.5   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 301    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 3560   |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 96.3   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | 6.2    |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | 7.0    |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 42.7   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-17 NORTHWEST-TSP-491<br>Sampled By: Client on 23-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 42400  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 346    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 585    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 19.3   |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 10.8   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-18 NORTHWEST-TSP-492<br>Sampled By: Client on 29-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 41400  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 369    |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 155    |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 7.1    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 15.9   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-19 TSP-JUNE TRIP BLANK<br>Sampled By: Client on 30-JUN-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 06-JUL-23 | R5964436 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Copper (Cu)   | 63.9   |            | 4.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Iron (Fe)   | 25     |            | 20   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Manganese (Mn)  | 1.0    |            | 1.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| Zinc (Zn)   | 11.9   |            | 5.0  | ug    | 25-JUL-23 | 26-JUL-23 | R5964737 |
| L2751647-20 NORTH-PM2.5-487<br>Sampled By: Client on 30-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 138    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-21 NORTH-PM2.5-488<br>Sampled By: Client on 05-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 213    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-22 NORTH-PM2.5-489<br>Sampled By: Client on 11-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 113    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-23 NORTH-PM2.5-490<br>Sampled By: Client on 17-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 378    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-24 NORTH-PM2.5-491<br>Sampled By: Client on 23-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 83     |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-25 NORTH-PM2.5-492<br>Sampled By: Client on 29-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 335    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-26 SOUTH-PM2.5-487<br>Sampled By: Client on 30-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                            |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-26 SOUTH-PM2.5-487<br>Sampled By: Client on 30-MAY-23<br>Matrix: 47mm Filter<br>Total particulate  | 169    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-27 SOUTH-PM2.5-488<br>Sampled By: Client on 05-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 232    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-28 SOUTH-PM2.5-489<br>Sampled By: Client on 11-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 165    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-29 SOUTH-PM2.5-490<br>Sampled By: Client on 17-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 457    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-30 SOUTH-PM2.5-491<br>Sampled By: Client on 23-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 106    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-31 SOUTH-PM2.5-492<br>Sampled By: Client on 29-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 341    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-32 NORTHWEST-PM2.5-487<br>Sampled By: Client on 30-MAY-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 146    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-33 NORTHWEST-PM2.5-488<br>Sampled By: Client on 05-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 230    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-34 NORTHWEST-PM2.5-489<br>Sampled By: Client on 11-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 142    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-35 NORTHWEST-PM2.5-490<br>Sampled By: Client on 17-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 465    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
|   |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2751647-36 NORTHWEST-PM2.5-491<br>Sampled By: Client on 23-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate   | 89     |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-37 NORTHWEST-PM2.5-492<br>Sampled By: Client on 29-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate   | 329    |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
| L2751647-38 PM2.5-JUNE TRIP BLANK<br>Sampled By: Client on 30-JUN-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 15     |            | 15   | ug    |           | 06-JUL-23 | R5964616 |
|   |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

# Quality Control Report

Workorder: L2751647

Report Date: 27-JUL-23

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5964737</b> |                   |        |           |       |     |        |           |
| <b>WG3786341-3</b>     | <b>DUP</b>      | <b>L2751647-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Copper (Cu)            |                 | 131               | 118    |           | ug    | 9.8 | 20     | 26-JUL-23 |
| Iron (Fe)              |                 | 558               | 513    |           | ug    | 8.4 | 25     | 26-JUL-23 |
| Manganese (Mn)         |                 | 22.5              | 21.0   |           | ug    | 7.2 | 20     | 26-JUL-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Lead (Pb)              |                 | 3.0               | <3.0   | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 26-JUL-23 |
| Zinc (Zn)              |                 | 27.6              | 25.4   |           | ug    | 8.1 | 20     | 26-JUL-23 |
| <b>WG3786341-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 96.0   |           | %     |     | 80-120 | 26-JUL-23 |
| Cadmium (Cd)           |                 |                   | 101.8  |           | %     |     | 80-120 | 26-JUL-23 |
| Cobalt (Co)            |                 |                   | 105.0  |           | %     |     | 80-120 | 26-JUL-23 |
| Chromium (Cr)          |                 |                   | 98.5   |           | %     |     | 80-120 | 26-JUL-23 |
| Copper (Cu)            |                 |                   | 100.0  |           | %     |     | 80-120 | 26-JUL-23 |
| Iron (Fe)              |                 |                   | 97.6   |           | %     |     | 80-120 | 26-JUL-23 |
| Manganese (Mn)         |                 |                   | 96.2   |           | %     |     | 80-120 | 26-JUL-23 |
| Nickel (Ni)            |                 |                   | 98.9   |           | %     |     | 80-120 | 26-JUL-23 |
| Lead (Pb)              |                 |                   | 105.0  |           | %     |     | 80-120 | 26-JUL-23 |
| Selenium (Se)          |                 |                   | 104.0  |           | %     |     | 80-120 | 26-JUL-23 |
| Vanadium (V)           |                 |                   | 98.8   |           | %     |     | 80-120 | 26-JUL-23 |
| Zinc (Zn)              |                 |                   | 100.5  |           | %     |     | 80-120 | 26-JUL-23 |
| <b>WG3786341-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 26-JUL-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 26-JUL-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 26-JUL-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 26-JUL-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 26-JUL-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 26-JUL-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 26-JUL-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 26-JUL-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 26-JUL-23 |

# Quality Control Report

Workorder: L2751647

Report Date: 27-JUL-23

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| Test                       | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>     |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5964737</b> |                    |        |           |       |     |        |           |
| <b>WG3786341-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Selenium (Se)              |                 |                    | <1.3   |           | ug    |     | 1.25   | 26-JUL-23 |
| Vanadium (V)               |                 |                    | <5.0   |           | ug    |     | 10     | 26-JUL-23 |
| Zinc (Zn)                  |                 |                    | <4.5   |           | ug    |     | 4.5    | 26-JUL-23 |
| <b>WG3786341-4</b>         | <b>MS</b>       | <b>L2751647-1</b>  |        |           |       |     |        |           |
| Arsenic (As)               |                 |                    | 97.0   |           | %     |     | 75-125 | 26-JUL-23 |
| Cadmium (Cd)               |                 |                    | 98.2   |           | %     |     | 75-125 | 26-JUL-23 |
| Cobalt (Co)                |                 |                    | 104.4  |           | %     |     | 75-125 | 26-JUL-23 |
| Chromium (Cr)              |                 |                    | 99.0   |           | %     |     | 75-125 | 26-JUL-23 |
| Copper (Cu)                |                 |                    | N/A    | MS-B      | %     |     | -      | 26-JUL-23 |
| Iron (Fe)                  |                 |                    | N/A    | MS-B      | %     |     | -      | 26-JUL-23 |
| Manganese (Mn)             |                 |                    | 96.9   |           | %     |     | 75-125 | 26-JUL-23 |
| Nickel (Ni)                |                 |                    | 99.6   |           | %     |     | 75-125 | 26-JUL-23 |
| Lead (Pb)                  |                 |                    | 99.3   |           | %     |     | 75-125 | 26-JUL-23 |
| Selenium (Se)              |                 |                    | 101.1  |           | %     |     | 75-125 | 26-JUL-23 |
| Vanadium (V)               |                 |                    | 98.1   |           | %     |     | 75-125 | 26-JUL-23 |
| Zinc (Zn)                  |                 |                    | 95.9   |           | %     |     | 75-125 | 26-JUL-23 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5964436</b> |                    |        |           |       |     |        |           |
| <b>WG3786320-10</b>        | <b>DUP</b>      | <b>L2751647-1</b>  |        |           |       |     |        |           |
| Total particulate          |                 | 53700              | 53700  |           | ug    | 0.0 | 5      | 06-JUL-23 |
| <b>WG3786320-9</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <100   |           | ug    |     | 100    | 06-JUL-23 |
| <b>PART-M212 F-GRAV-BU</b> |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5964616</b> |                    |        |           |       |     |        |           |
| <b>WG3786339-2</b>         | <b>DUP</b>      | <b>L2751647-20</b> |        |           |       |     |        |           |
| Total particulate          |                 | 138                | 138    |           | ug    | 0.0 | 10     | 06-JUL-23 |
| <b>WG3786339-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <15    |           | ug    |     | 15     | 06-JUL-23 |



# Quality Control Report

Workorder: L2751647

Report Date: 27-JUL-23

Page 3 of 3

## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

---

| Qualifier | Description  |
|-----------|--|
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

---

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



| Report to   |                         | Report Format / Distribution                                       |              |             | Service Requested  |              |              |       |             |              |                          |  |  |
|---|-------------------------|--|--------------|-------------|--|--------------|--------------|-------|-------------|--------------|--------------------------|--|--|
| Company: New Gold Inc.  |                         |  |              |             | Regular Service  |              |              |       |             |              |                          |  |  |
| Contact: Robyn Lloyd  |                         |  |              |             | Rush Service (with prior consultation) - surcharge applies |              |              |       |             |              |                          |  |  |
| Address: 1361 Roen Road, Chapple, ON P0W 1A0  |                         | Email 1: robyn.lloyd@newgold.com                                   |              |             | Other - Please contact ALS                                 |              |              |       |             |              |                          |  |  |
| Phone: 807-234-8200 ext. 8029   |                         | Email 2:   |              |             | Analysis Request   |              |              |       |             |              |                          |  |  |
| Invoice To: Same as Report  |                         | Client / Project Information                                       |              |             | TSP and Metals   |              |              |       |             |              |                          |  |  |
| Company:  |                         | Job #: Air Quality   |              |             | Pm 2.5   |              |              |       |             |              |                          |  |  |
| Contact:  |                         | Location:  |              |             | Dustfall incl. volatile                                    |              |              |       |             |              |                          |  |  |
| Address:  |                         | PO: 14500059107  |              |             | Analysis Request   |              |              |       |             |              |                          |  |  |
| Phone:  |                         | Sampled by:  |              |             | Hazardous? Provide Det                                     |              |              |       |             |              |                          |  |  |
| Lab Work Order #  |                         | ALS Contact:   |              |             | Highly Contaminated?                                       |              |              |       |             |              |                          |  |  |
| Sample #  |                         | Sample Identification (This description will appear on the report) |              |             | Date (dd-mm-yy)  |              | Time (h:mm)  |       | Sample Type |              |                          |  |  |
|   | NORTH-TSP-487           |  |              |             | 30-May-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-TSP-487           |  |              |             | 30-May-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-TSP-487       |  |              |             | 30-May-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-TSP-488           |  |              |             | 5-Jun-2023   |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-TSP-488           |  |              |             | 5-Jun-2023   |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-TSP-488       |  |              |             | 5-Jun-2023   |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-TSP-489           |  |              |             | 11-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-TSP-489           |  |              |             | 11-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-TSP-489       |  |              |             | 11-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-TSP-490           |  |              |             | 17-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-TSP-490           |  |              |             | 17-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-TSP-490       |  |              |             | 17-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-TSP-491           |  |              |             | 23-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-TSP-491           |  |              |             | 23-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-TSP-491       |  |              |             | 23-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-TSP-492           |  |              |             | 29-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-TSP-492           |  |              |             | 29-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-TSP-492       |  |              |             | 29-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | TRIP BLANK - June TSP   |  |              |             | 30-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-PM2.5-487         |  |              |             | 30-May-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-PM2.5-487         |  |              |             | 30-May-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-PM2.5-487     |  |              |             | 30-May-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-PM2.5-488         |  |              |             | 5-Jun-2023   |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-PM2.5-488         |  |              |             | 5-Jun-2023   |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-PM2.5-488     |  |              |             | 5-Jun-2023   |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-PM2.5-489         |  |              |             | 11-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-PM2.5-489         |  |              |             | 11-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-PM2.5-489     |  |              |             | 11-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-PM2.5-490         |  |              |             | 17-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-PM2.5-490         |  |              |             | 17-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-PM2.5-490     |  |              |             | 17-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-PM2.5-491         |  |              |             | 23-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-PM2.5-491         |  |              |             | 23-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-PM2.5-491     |  |              |             | 23-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTH-PM2.5-492         |  |              |             | 29-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | SOUTH-PM2.5-492         |  |              |             | 29-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | NORTHWEST-PM2.5-492     |  |              |             | 29-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | TRIP BLANK - June PM2.5 |  |              |             | 30-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | Dustfall - Northwest    |  |              |             | 30-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | Dustfall - Trip Blank   |  |              |             | 30-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | Dustfall - North        |  |              |             | 30-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
|   | Dustfall - South        |  |              |             | 30-Jun-2023  |              | 12:00        |       | Air         |              | X                        |  |  |
| Special Instructions / Regulations / Hazardous Details  |                         |  |              |             |  |              |              |       |             |              |                          |  |  |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |                         |  |              |             |  |              |              |       |             |              |                          |  |  |
| Released by:  | Date (dd-mm-yy)         | Time (h:m)   | Received by: | Date:       | Time:  | Temperature: | Verified by: | Date: | Time:       | Observations |                          |  |  |
|   |                         |  | ARON B...    | 6-July-2023 | 10:30  | 23.2 °C      |              |       |             |              | Yes (No) If Yes, add Sig |  |  |



L2751647-COFC



## Confirmation of Sample Receipt

Bureau Veritas Job Number: C351551

Job Received: 2023/07/10

Final Report Due: 2023/07/20

Disposal Date: 2023/08/14

### Parameter Summary

| Package/Test         | Parameter      | RDL * | Unit | Samples |
|----------------------|----------------|-------|------|---------|
| NO2 Passive Analysis | Calculated NO2 | 0.1   | ppb  | All     |
| SO2 Passive Analysis | Calculated SO2 | 0.1   | ppb  | All     |

*\*RDLs are subject to change based on interferences present at the time of analysis.*





6744 - 50 St. Edmonton, AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Bureau Veritas Job Number:

# PASSIVE AIR CHAIN OF CUSTODY

Page 1 of 1

### Invoice To

Company Name ALS Environmental  
 Contact Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/Postal Code \_\_\_\_\_  
 Phone/Fax# \_\_\_\_\_

Report To  
 Name & Email Address  
 \_\_\_\_\_  
 \_\_\_\_\_

Service Requested  
 RUSH  
 (Please contact for TAT)  
 REGULAR

Company Name **ALS**  
 Project Name/LSD **New Gold**  
**TC111504.2015.6**

### ANALYTICAL INFORMATION

| Sample ID or Location (LSD) <sup>*</sup> | Sample Start Date (DD/MM/YY) | Time (24 hrs) (HH:MM) | Sample End Date (DD/MM/YY) <sup>*</sup> | Time (HH:MM) | Volume (m3)<br>PM/TSP Only | Analysis Required |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|--|------------------------------|-----------------------|---|--------------|----------------------------|-------------------|-----|-----|----|-----|-------|------|-----|----------|--|--|--|--|--|--|
|  |                              |                       |   |              |                            | SO2               | H2S | NO2 | O3 | NH3 | PM2.5 | PM10 | TSP | Dustfall |  |  |  |  |  |  |
| PRP South                                |                              |                       |   |              |                            | X                 |     | X   |    |     |       |      |     |          |  |  |  |  |  |  |
| PRP North                                |                              |                       |   |              |                            | X                 |     | X   |    |     |       |      |     |          |  |  |  |  |  |  |
| Blank                                    |                              |                       |   |              |                            | X                 |     | X   |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|  |                              |                       |   |              |                            |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |

Notes/Comments: Client 13251 / Scenario 12539

Sampled By \_\_\_\_\_ Date/Time 2023/07/04 Project # 307  
 Date Shipped 2023/07/04 Signature [Signature] Received By \_\_\_\_\_ PO# 3002  
NS 23-07-10 08:30

PTC FCD-00457/4 Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at <http://www.bvlab.com/terms-and-conditions>.



Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/03/30 - 2023/04/29  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/05/15**  
 Report #: R3335798  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C331759**

**Received: 2023/05/04, 10:30**

Sample Matrix: Air  
 # Samples Received: 2

| <b>Analyses</b>      | <b>Quantity</b> | <b>Date Extracted</b> | <b>Date Analyzed</b> | <b>Laboratory Method</b> | <b>Analytical Method</b> |
|----------------------|-----------------|-----------------------|----------------------|--------------------------|--------------------------|
| NO2 Passive Analysis | 2               | 2023/05/05            | 2023/05/11           | PTC SOP-00148            | Passive NO2 in ATM       |
| SO2 Passive Analysis | 2               | 2023/05/09            | 2023/05/11           | PTC SOP-00149            | Passive SO2 in ATM       |

This report shall not be reproduced except in full, without the written approval of the laboratory.  
 Results relate only to the items tested.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



BUREAU  
VERITAS

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | BPX535              | BPX536              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/03/30<br>12:00 | 2023/03/30<br>12:00 |     |          |
|                                  | UNITS | PRP SOUTH           | PRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.3                 | <0.1                | 0.1 | A957021  |
| Calculated SO2                   | ppb   | <0.1                | 0.1                 | 0.1 | A955830  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.





BUREAU  
VERITAS

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC<br>Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| A955830        | OZ   | Spiked Blank | Calculated SO2 |               |       | 102      | %     | 90 - 110  |
| A955830        | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |
| A957021        | SDK  | Spiked Blank | Calculated NO2 |               |       | 98       | %     | 90 - 110  |
| A957021        | SDK  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

---

Yang Liu, Analyst II

---

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/05/29 - 2023/06/30  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/07/20**  
 Report #: R3368142  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C351551**

**Received: 2023/07/10, 08:30**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/07/11 | 2023/07/19 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/07/12 | 2023/07/19 | PTC SOP-00149     | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.  
 Results relate only to the items tested.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

=====

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**BUREAU  
VERITAS**

Bureau Veritas Job #: C351551  
Report Date: 2023/07/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | BUF668              | BUF669              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/05/29<br>00:00 | 2023/05/29<br>00:00 |     |          |
|                                  | UNITS | PRP SOUTH           | PRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.7                 | 0.2                 | 0.1 | B035840  |
| Calculated SO2                   | ppb   | 0.1                 | <0.1                | 0.1 | B031126  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU  
VERITAS**

Bureau Veritas Job #: C351551  
Report Date: 2023/07/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C351551  
Report Date: 2023/07/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC<br>Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| B031126        | OZ   | Spiked Blank | Calculated SO2 |               |       | 100      | %     | 90 - 110  |
| B031126        | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |
| B035840        | SDK  | Spiked Blank | Calculated NO2 |               |       | 100      | %     | 90 - 110  |
| B035840        | SDK  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C351551  
Report Date: 2023/07/20

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "S. Gloux", written over a horizontal line.

Steven Gloux, Senior Analyst

---

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Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/03/30 - 2023/04/29  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/05/15**  
 Report #: R3335798  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C331759**

**Received: 2023/05/04, 10:30**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/05/05 | 2023/05/11 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/05/09 | 2023/05/11 | PTC SOP-00149     | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.  
 Results relate only to the items tested.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

=====

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BUREAU  
VERITAS

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | BPX535              | BPX536              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/03/30<br>12:00 | 2023/03/30<br>12:00 |     |          |
|                                  | UNITS | PRP SOUTH           | PRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.3                 | <0.1                | 0.1 | A957021  |
| Calculated SO2                   | ppb   | <0.1                | 0.1                 | 0.1 | A955830  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU  
VERITAS**

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| A955830     | OZ   | Spiked Blank | Calculated SO2 |               |       | 102      | %     | 90 - 110  |
| A955830     | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |
| A957021     | SDK  | Spiked Blank | Calculated NO2 |               |       | 98       | %     | 90 - 110  |
| A957021     | SDK  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C331759  
Report Date: 2023/05/15

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

---

Yang Liu, Analyst II

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# **APPENDIX D: HI-VOL & PQ200 SAMPLER CALIBRATION SHEETS**

**Audited Instrument:**

Station: Northwest Make/Model: BGI PQ200 S/N: 79407

Date: 2023-04-15 Time: 1600 deltaCal®S/N: \_\_\_\_\_

RL/SJ

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.71

deltaCal®: 16.22

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = -3.02$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

Recalibrated to 16.7

**Ambient Temp. - °C**

Sampler: 0.8

deltaCal®: 0.5

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 727

deltaCal®: 727

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 1.2

deltaCal®: 1.6

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: South Make/Model: PQ200 S/N: 1751

Date: 20230429 Time: 1205 deltaCal®S/N: 172457

Tech: RL/HJ

**Leak Test**

Pass  Fail

**Flow Rate – Lpm**

Sampler: 16.70

deltaCal®: 16.81

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.65$

Allowed diff. = 4%; Pass  Fail

**Ambient Temp. - °C**

Sampler: 8.7

deltaCal®: 8.0

Allowed diff. = ±2°C; Pass  Fail

**Barometric Pressure – mm of Hg**

Sampler: 721

deltaCal®: 724.5

Allowed diff. = ±10 mm; Pass  Fail

**Filter Temp. °C**

Sampler: 10.5

deltaCal®: 8.6

Allowed diff. = ± 2°C; Pass  Fail

**Audited Instrument:**

Station: Northwest Make/Model: PQ200 S/N: 79407

Date: 20230429 Time: 1240 deltaCal®S/N: 172457

Tech: RL/HD

**Leak Test**

Pass  Fail

**Flow Rate – Lpm**

Sampler: 16.70

deltaCal®: 17.11

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 2.4\%$

Allowed diff. = 4%; Pass  Fail

**Ambient Temp. - °C**

Sampler: 9.2

deltaCal®: 8.5

Allowed diff. = ±2°C; Pass  Fail

**Barometric Pressure – mm of Hg**

Sampler: 724

deltaCal®: 724.5

Allowed diff. = ±10 mm; Pass  Fail

**Filter Temp. °C**

Sampler: 10.6

deltaCal®: 8.7

Allowed diff. = ±2°C; Pass  Fail

Brought to North Station + Calibrated to 16.7 for Run on 2023-04-30.



**Audited Instrument:**

Station: North West Make/Model: PQ200 S/N: 1752

Date: 20230429 Time: 1635 deltaCal® S/N: 172457

Tech:

**Leak Test**

Pass  Fail

**Flow Rate – Lpm**

Sampler: 16.71

deltaCal®: 16.67

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = -0.2$

Allowed diff. = 4%; Pass  Fail

**Ambient Temp. - °C**

Sampler: 22.2

deltaCal®: 19.9

Allowed diff. = ±2°C; Pass  Fail

\* Moved from North to Northwest station.

**Barometric Pressure – mm of Hg**

Sampler: 724

deltaCal®: 725

Allowed diff. = ±10 mm; Pass  Fail

**Filter Temp. °C**

Sampler: 21.5

deltaCal®: 22.2

Allowed diff. = ± 2°C; Pass  Fail



### Site Information

|                         |                |                   |
|-------------------------|----------------|-------------------|
| Location: South Station | Site ID: 145   | Date: 17-Apr-23   |
| Sampler: E-5170 MFC     | Serial No: 367 | Tech: Robyn Lloyd |

### Site Conditions

|                                    |                                 |
|------------------------------------|---------------------------------|
| Barometric Pressure (in Hg): 28.50 | Corrected Pressure (mm Hg): 722 |
| Temperature (deg F): 44            | Temperature (deg K): 280        |
| Average Press. (in Hg): 28.43      | Corrected Average (mm Hg): 722  |
| Average Temp. (deg F): 44          | Average Temp. (deg K): 280      |

### Calibration Orifice

|                |                           |
|----------------|---------------------------|
| Make: Tisch    | Qstd Slope: 1.05299       |
| Model: TE-5028 | Qstd Intercept: -0.01721  |
| Serial#: 3662  | Date Certified: 27-Sep-23 |

### Calibration Information

| Plate or Test # | H2O (in) | Qstd (m3/min) | I (chart) | IC (corrected) | Linear Regression   |
|-----------------|----------|---------------|-----------|----------------|---|
| 1               | 2.86     | 1.633         | 48.0      | 48.31          | Slope: 16.8864<br>Intercept: 20.3347<br>Corr. Coeff: 0.9954<br># of Observations: 5 |
| 2               | 2.60     | 1.557         | 46.0      | 46.30          |   |
| 3               | 2.20     | 1.434         | 44.0      | 44.28          |   |
| 4               | 1.78     | 1.292         | 42.0      | 42.27          |   |
| 5               | 1.47     | 1.175         | 40.0      | 40.26          |   |

### Calculations

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate  
 IC = corrected chart response  
 I = actual chart response

m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration (deg K)  
 Pa = actual pressure during calibration (mm Hg)  
 Tstd = 298 deg K  
 Pstd = 760 mm Hg

For subsequent calculation of sampler flow:  
 $1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$

m = sampler slope  
 b = sampler intercept  
 I = chart response  
 Tav = daily average temperature  
 Pav = daily average pressure

|   |
|---|
| <b>Average I (chart): 44.0</b>                        |
| <b>Average Flow Calculation m3/min</b><br>1.417606046 |
| <b>Average Flow Calculation in CFM</b><br>50.05566949 |
| <b>Sample Time (Hrs): 24.0</b>                        |
| <b>Total Flow in m3/min</b><br>2041.352706            |
| <b>Total Flow in CFM</b><br>72080.16407               |

**NOTE: Ensure calibration orifice has been certified within 12 months of use**



**Site Information**

|                     |                |                         |
|---------------------|----------------|-------------------------|
| Location: Northwest | Site ID: 145   | Date: 29-May-23         |
| Sampler: E-5170 MFC | Serial No: 367 | Tech: Robyn Lloyd / Hel |

**Site Conditions**

|                                    |                                 |
|------------------------------------|---------------------------------|
| Barometric Pressure (in Hg): 28.50 | Corrected Pressure (mm Hg): 724 |
| Temperature (deg F): 68            | Temperature (deg K): 293        |
| Average Press. (in Hg): 28.50      | Corrected Average (mm Hg): 724  |
| Average Temp. (deg F): 68          | Average Temp. (deg K): 293      |

**Calibration Orifice**

|                |                           |
|----------------|---------------------------|
| Make: Tisch    | Qstd Slope: 1.68160       |
| Model: TE-5028 | Qstd Intercept: -0.02742  |
| Serial#: 3662  | Date Certified: 27-Sep-22 |

**Calibration Information**

| Plate or Test # | H2O (in) | Qstd (m3/min) | I (chart) | IC (corrected) | Linear Regression  |
|-----------------|----------|---------------|-----------|----------------|--|
| 1               | 4.95     | 1.319         | 48.0      | 47.25          | <b>Slope:</b> 29.5457<br><b>Intercept:</b> 8.3525<br><b>Corr. Coeff:</b> 0.9997<br><br><b># of Observations:</b> 5 |
| 2               | 4.43     | 1.248         | 46.0      | 45.28          |  |
| 3               | 3.95     | 1.180         | 44.0      | 43.32          |  |
| 4               | 3.55     | 1.119         | 42.0      | 41.35          |  |
| 5               | 3.12     | 1.050         | 40.0      | 39.38          |  |

**Calculations**

$Qstd = 1/m[\text{sqrt}(H2O(Pa/Pstd)(Tstd/Ta)) - b]$   
 $IC = I[\text{sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate  
 IC = corrected chart response  
 I = actual chart response  
 m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration (deg K)  
 Pa = actual pressure during calibration (mm Hg)  
 Tstd = 298 deg K  
 Pstd = 760 mm Hg  
 For subsequent calculation of sampler flow:  
 $1/m((I)[\text{sqrt}(298/Tav)](Pav/760)) - b$

m = sampler slope  
 b = sampler intercept  
 I = chart response  
 Tav = daily average temperature  
 Pav = daily average pressure

|   |
|---|
| <b>Average I (chart): 44.0</b>                        |
| <b>Average Flow Calculation m3/min</b><br>1.183346354 |
| <b>Average Flow Calculation in CFM</b><br>41.78395976 |
| <b>Sample Time (Hrs): 24.0</b>                        |
| <b>Total Flow in m3/min</b><br>1704.01875             |
| <b>Total Flow in CFM</b><br>60168.90205               |

**NOTE: Ensure calibration orifice has been certified within 12 months of use**



**Site Information**

|                                |                       |                          |
|--------------------------------|-----------------------|--------------------------|
| <b>Location:</b> North Station | <b>Site ID:</b> 145   | <b>Date:</b> 15-May-23   |
| <b>Sampler:</b> E-5170 MFC     | <b>Serial No:</b> 367 | <b>Tech:</b> Robyn Lloyd |

**Site Conditions**

|   |  |
|---|--|
| <b>Barometric Pressure (in Hg):</b> 28.60 | <b>Corrected Pressure (mm Hg):</b> 726 |
| <b>Temperature (deg F):</b> 32            | <b>Temperature (deg K):</b> 273        |
| <b>Average Press. (in Hg):</b> 28.60      | <b>Corrected Average (mm Hg):</b> 726  |
| <b>Average Temp. (deg F):</b> 32          | <b>Average Temp. (deg K):</b> 273      |

**Calibration Orifice**

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Make:</b> Tisch    | <b>Qstd Slope:</b> 1.68160       |
| <b>Model:</b> TE-5028 | <b>Qstd Intercept:</b> -0.02742  |
| <b>Serial#:</b> 3662  | <b>Date Certified:</b> 27-Sep-22 |

**Calibration Information**

| Plate or Test # | H2O (in) | Qstd (m3/min) | I (chart) | IC (corrected) | Linear Regression           |
|-----------------|----------|---------------|-----------|----------------|-----------------------------|
| 1               | 5.50     | 1.441         | 50.0      | 51.07          | <b>Slope:</b> 17.8995       |
| 2               | 4.33     | 1.280         | 48.0      | 49.03          | <b>Intercept:</b> 25.5500   |
| 3               | 3.80     | 1.200         | 46.0      | 46.99          | <b>Corr. Coeff:</b> 0.9943  |
| 4               | 3.18     | 1.100         | 44.0      | 44.94          |                             |
| 5               | 2.45     | 0.967         | 42.0      | 42.90          | <b># of Observations:</b> 5 |

**Calculations**

$Qstd = 1/m[\text{sqrt}(H2O(Pa/Pstd)(Tstd/Ta))]-b]$   
 $IC = I[\text{sqrt}(Pa/Pstd)(Tstd/Ta)]$

Qstd = standard flow rate  
 IC = corrected chart response  
 I = actual chart response  
 m = calibrator Qstd slope  
 b = calibrator Qstd intercept  
 Ta = actual temperature during calibration (deg K)  
 Pa = actual pressure during calibration (mm Hg)  
 Tstd = 298 deg K  
 Pstd = 760 mm Hg  
 For subsequent calculation of sampler flow:  
 $1/m((I)[\text{sqrt}(298/Tav)(Pav/760)]-b)$

m = sampler slope  
 b = sampler intercept  
 I = chart response  
 Tav = daily average temperature  
 Pav = daily average pressure

|   |
|---|
| <b>Average I (chart):</b> 44.0                        |
| <b>Average Flow Calculation m3/min</b><br>1.083498122 |
| <b>Average Flow Calculation in CFM</b><br>38.25831869 |
| <b>Sample Time (Hrs):</b> 24.0                        |
| <b>Total Flow in m3/min</b><br>1560.237296            |
| <b>Total Flow in CFM</b><br>55091.97891               |

**NOTE: Ensure calibration orifice has been certified within 12 months of use**

# **APPENDIX E: SAMPLE EDIT LOGS**

## APPENDIX E-1: TOTAL SUSPENDED PARTICULATE SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned  
Highway 600

Pollutant/Parameter: Total Suspended Particulate (TSP)

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: April 1, 2023

End Date: June 30, 2023

| # | Action         | Date   | Reason   |
|---|----------------|--------|--|
| 1 | Invalid sample | 6-Apr  | Sample volume was above the maximum volume limit |
| 2 | Invalid sample | 12-Apr | Sample volume was above the maximum volume limit |
| 3 | Invalid sample | 6-May  | Sample volume was below the lower volume limit   |

Address: Rainy River Mine

Measurement Instrument: High Volume (Hi-Vol) Sampler

Station Name: Northwest Station

Start Date: April 1, 2023

Station Location: North-west of the Site at Tailings Management Area

End Date: June 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |
|   |        |      |        |

Address: Rainy River Mine

Station Name: North (Gallinger Road)

Station Location: North of the Site at Gallinger Road

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: April 1, 2023

End Date: June 30, 2023

| # | Action         | Date   | Reason   |
|---|----------------|--------|--|
| 1 | Invalid sample | 12-Apr | Sample volume was below the lower volume limit |
| 2 | Invalid sample | 24-Apr | Sample volume was below the lower volume limit |
| 3 | Invalid sample | 12-May | Sample volume was below the lower volume limit |
| 4 | Invalid sample | 18-May | Sample volume was below the lower volume limit |
| 5 | Invalid sample | 24-May | Sample volume was below the lower volume limit |
| 6 | Invalid sample | 5-Jun  | Sample volume was below the lower volume limit |



## APPENDIX E-2: RESPIRABLE PARTICULATE MATTER SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: April 1, 2023

End Date: June 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Gallinger Road Station

Station Location: North-east of the Site along Gallinger Road

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: April 1, 2023

End Date: June 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |

|   |  |  |  |
|---|--|--|--|
| 1 |  |  |  |
|---|--|--|--|

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: April 1, 2023

End Date: June 30, 2023

| # | Action         | Date                    | Reason  |
|---|----------------|-------------------------|---|
| 1 | Invalid Sample | April 6 – April 12 2023 | Sampler did not record sample volume as it was out for repair |

## APPENDIX E-3: DUSTFALL SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Dustfall

Measurement Instrument: Passive Sampler Jar

Start Date: January 1, 2023

End Date: March 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |





**NEW GOLD INC.  
RAINY RIVER MINE**

**AMBIENT AIR QUALITY MONITORING PROGRAM  
THIRD QUARTER 2023 REPORT**

**NOVEMBER 2023**

## ACRONYMS AND ABBREVIATIONS

|                          |  |
|--------------------------|--|
| $\mu\text{g}/\text{m}^3$ | Microgram per Cubic Metre  |
| AAQC                     | Ambient Air Quality Criteria   |
| AAQO                     | Alberta Ambient Air Quality Objectives                                 |
| ACFM                     | Cubic Feet Per Minute at Actual Conditions                             |
| AEP                      | Alberta Environment and Parks  |
| ASTM                     | American Society for Testing and Materials                             |
| BCMOE                    | British Columbia Ministry of the Environment                           |
| CAAQS                    | Canadian Ambient Air Quality Standards                                 |
| CFM                      | Cubic Foot Per Minute  |
| Hi-Vol                   | High Volume Sampler  |
| ICP/AES                  | Inductively Coupled Plasma / Atomic Emission Spectroscopy              |
| ICP/MS                   | Inductively Coupled Plasma / Mass Spectrometry                         |
| LPM                      | Litres Per Minute  |
| MECP                     | Ministry of the Environment, Conservation and Parks                    |
| NIST                     | National Institute of Standards and Technology                         |
| $\text{NO}_2$            | Nitrogen Dioxide   |
| $\text{PM}_{2.5}$        | Particulate Matter less than 2.5 microns ( $\mu\text{m}$ ) in diameter |
| POI                      | Point of Impingement   |
| $\text{SO}_2$            | Sulphur Dioxide  |
| TSP                      | Total Suspended Particulate  |
| U.S. EPA                 | United States Environmental Protection Agency                          |
| UTM                      | Universal Transverse Mercator  |

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## **Section 1. INTRODUCTION**

The following is a summary of the Third Quarter 2023 Report results of the Ambient Air Quality Monitoring Program undertaken at New Gold Inc.'s Rainy River Mine located north-west of Emo, Ontario.

In this quarter, New Gold Inc. (New Gold) staff operated and maintained the ambient air quality monitoring sampling stations; communicated with laboratory staff, as required; prepared data summary reports; and performed equipment calibrations at the various monitoring stations, as necessary.

This Quarterly Ambient Air Quality Report addresses the required elements of a Quarterly Report, as defined in the "Operations Manual for Air Quality Monitoring in Ontario" (Ontario Ministry of the Environment, Conservation and Parks, 2019), hereafter referred to as the Operations Manual. The following information is provided:

- Sampling Details
- Contaminant Summary Statistics
  - Number of Valid Samples and Percent Valid Data
  - Arithmetic and Geometric Means
  - Max Sampling Results
- Summary of Exceedances of All Applicable Limits (incl. Ontario AAQCs and CAAQS)

The purpose of the Ambient Air Quality Monitoring Program is to quantify the potential air quality effects associated with mining activities. The Program is conducted in accordance with the Site's Amended Environmental Compliance Approval (ECA) No. 0412-A2LR4V, issued on September 24, 2015, and the MECP Program Approval Letter, dated November 9, 2016.

The Program consists of three (3) sampling stations established in May 2015:

- South-west of the Site near McMillan Road along the realigned Highway 600 (Tait Road Station);
- North-east of the Site along Gallinger Road (Gallinger Road Station); and
- North-west monitoring station.

These sampling stations consist of:

- One (1) High Volume (Hi-Vol) Sampler for discrete sampling of total suspended particulate (TSP) and metals;
- One (1) PQ200 Sampler for discrete sampling of respirable particulate matter (PM<sub>2.5</sub>);
- One (1) passive dustfall collection unit for sampling dustfall; and

- One (1) passive sampling enclosure for sampling nitrogen dioxide (NO<sub>2</sub>) and sulphur dioxide (SO<sub>2</sub>).

## Section 2. MONITORING STATIONS

The ambient air quality monitoring stations were sited in accordance with the criteria stipulated in the Operations Manual (2019).

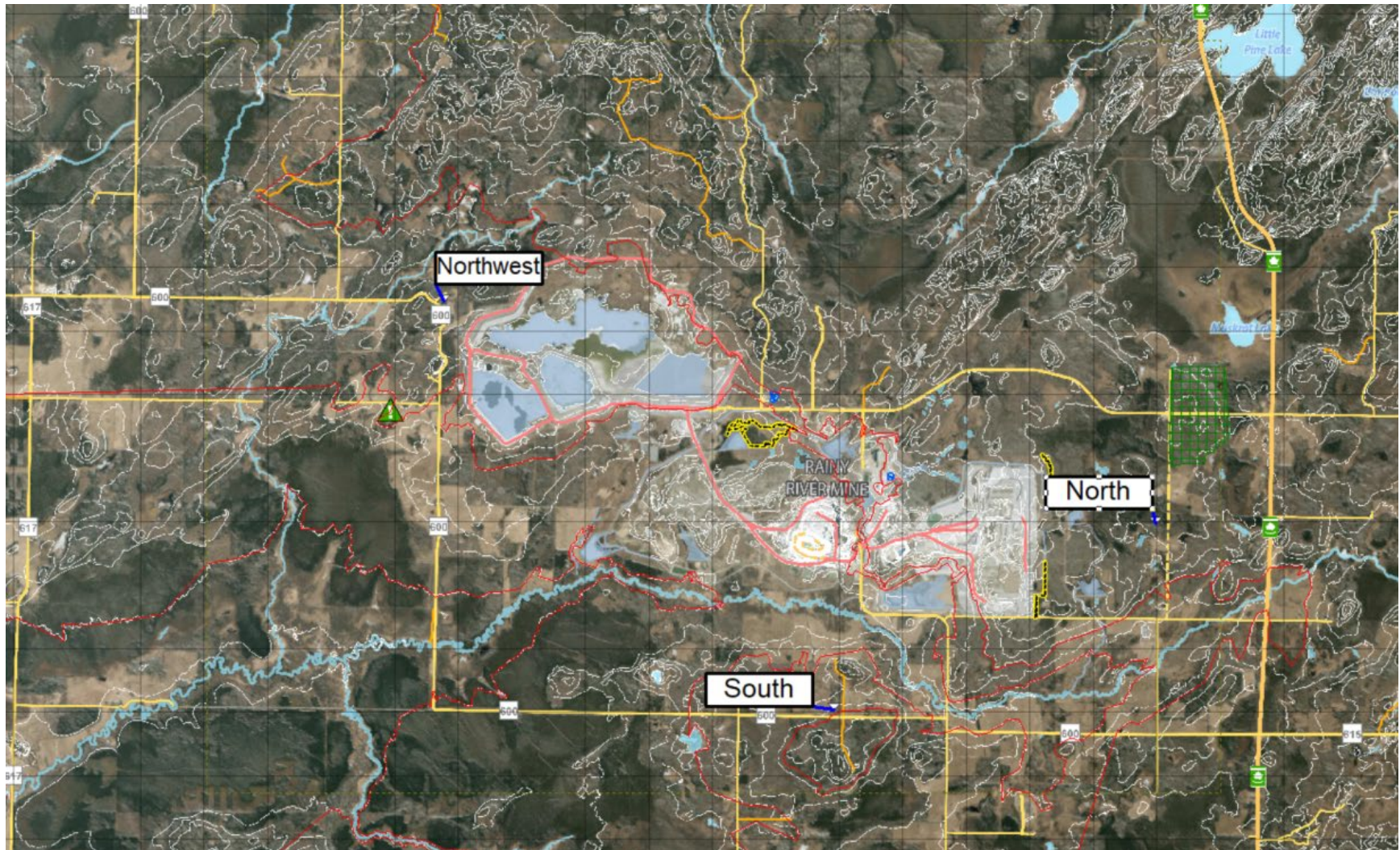
Universal Transverse Mercator (UTM) co-ordinates for each station based on the NAD83 co-ordinate system are presented in **Table 2-1**. The stations are shown in **Figure 2-1** through **Figure 2-7** below.

*Table 2-1. Ambient Air Monitoring Stations*

| Station                            | UTM Co-ordinates |              |      | Parameters Monitored   |
|------------------------------------|------------------|--------------|------|--|
|                                    | Easting (m)      | Northing (m) | Zone |  |
| Tait Road (Southwest Station)      | 426 072          | 5 406 996    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Gallinger Road (Northeast Station) | 431 133          | 5 410 534    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Northwest Station (TMA)            | 419 797          | 5 413 042    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall                                    |

### 2.1 METEOROLOGICAL STATION

Barron Site, located near Heatwole Road, contains a meteorological station that provides real-time wind speed, wind direction, temperature, relative humidity, precipitation, and solar radiation data. All measurements taken at this Site are taken at a height of ten (10) meters above grade.



*Figure 2-1. Ambient Air Monitoring Station Locations*



Figure 2-2. Tait Road Station Siting



Figure 2-3. Gallinger Road Station Siting



*Figure 2-4. Tait Road Station Detailed View*



Figure 2-5. Northwest Station Siting



## Section 3. ANALYTICAL METHODS

### 3.1 TOTAL SUSPENDED PARTICULATE MATTER (TSP) AND METALS

24-hour average TSP and metal samples were collected as specified in the Operations Manual. Samples were collected every sixth (6<sup>th</sup>) day, as per the U.S. EPA Sampling Schedule (United States Environmental Protection Agency, 2020).

TSP and metal samples were collected using High Volume (Hi-Vol) Samplers with a brush motor and controlled mass flow. The samples are collected on an 8-inch by 10-inch Hi-Vol quartz filter.

TSP concentrations are determined using the standard gravimetric reference method described in Compendium Method IO-3.1 of the U.S. EPA's "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air" (1999).

The lowest detectable mass of TSP on the filter is 2,300 micrograms ( $\mu\text{g}$ ). A valid 24-hour sample volume for the Hi-Vol Sampler ranges between 1,468 and 1,794 cubic metres ( $\text{m}^3$ ). As such, the method detection limit (MDL) for TSP ranges between 1.28 and 1.57 micrograms per cubic metre ( $\mu\text{g}/\text{m}^3$ ).

Metal concentrations are determined using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP/AES) based on Compendium Method IO-3.5 (U.S. EPA, 1999). The metals and metalloids (elements with both metallic and non-metallic properties) analyzed include arsenic (As), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), manganese (Mn), nickel (Ni), selenium (Se), vanadium (V), and zinc (Zn).

The total volume of each sample is calculated using methods recommended by the sampler manufacturer. These calculations account for ambient temperature and pressure, sampler flow rate, and individual monitor specifications. The calculations are not corrected for humidity.

### 3.2 RESPIRABLE PARTICULATE MATTER ( $\text{PM}_{2.5}$ )

Respirable particulate samples are collected at the same time as TSP samples (every sixth day, as per the EPA Sampling Schedule).

Samples are collected using PQ200 Samplers over a 24-hour period to align with the averaging time for the Canadian Ambient Air Quality Standard (CAAQS). The samples are collected on a 47-millimetre (mm) diameter polytetrafluoroethylene (PTFE; Teflon) filter.

$\text{PM}_{2.5}$  concentrations are determined using the standard gravimetric reference method outlined in the U.S. EPA's "Quality Assurance Guidance Document 2.12: Monitoring  $\text{PM}_{2.5}$  in Ambient Air Using Designated Reference or Class I Equivalent Methods" (U.S. EPA, 2016).

The lowest detectable mass of  $\text{PM}_{2.5}$  on the Teflon filter is 15 micrograms ( $\mu\text{g}$ ). Based on a valid 24-hour sample volume ranging between 21.6 and 26.4  $\text{m}^3$ , the MDL for  $\text{PM}_{2.5}$  ranges between 0.9 and 16.7  $\mu\text{g}/\text{m}^3$ .

Total sample volume is recorded mechanically by the PQ200 Samplers.

### 3.3 TOTAL DUSTFALL

Total dustfall deposition samples are collected over a 30-day period using standard plastic dustfall sampler jars with four (4) millimetre (mm) polyethylene liners. The dustfall jars are treated with an algaecide to prevent algal growth during the summer and alcohol to prevent freezing during the winter.

The sample jars measure roughly 15.4-centimetres (cm) in diameter by 30.5 cm in height.

The water soluble and insoluble portions of dustfall are determined by gravimetric analysis using the method described in Section G of British Columbia Ministry of the Environment's "Air Constituents – Inorganic" (British Columbia Ministry of the Environment, 2020).

Metal concentrations within the dustfall samples are determined using Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) in accordance with U.S. EPA's Method 6020A (SW-846) (U.S. EPA, 1998). The metals and metalloids sampled include aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), bismuth (Bi), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), phosphorus (P), potassium (K), selenium (Se), silicon (Si), silver (Ag), sodium (Na), strontium (Sr), thallium (Tl), tin (Sn), titanium (Ti), uranium (U), vanadium (V), and zinc (Z).

The analysis method employed for total dustfall has an MDL of 0.3 grams per square metre per 30 days ( $\text{g/m}^2/30$  days).

### 3.4 PASSIVE SAMPLING FOR SO<sub>2</sub> AND NO<sub>2</sub>

Sulphur dioxide (SO<sub>2</sub>) and nitrogen dioxide (NO<sub>2</sub>) concentrations are monitored by passive monitoring devices over a 30-day exposure period. As such, sample uptake depends on temperature, relative humidity, and wind speed. To account for this, analytical results are adjusted based on the monthly averages for these meteorological parameters throughout the exposure period. The required meteorological data are obtained by Maxxam Analytics from the Environment and Climate Change Canada website for the Fort Frances meteorological station (Climate ID 6022474) with each sample submission.

Since there is currently no MECP guidance on 30-day passive sampling of NO<sub>2</sub> or SO<sub>2</sub>, sampling is performed using the methodology developed, approved, and validated by Alberta Environment with the support of the Alberta Research Council, the Clean Air Strategic Alliance of Alberta, and the National Research Council of Canada (Bari, Curran, & Kindzierski, 2015).

For both SO<sub>2</sub> and NO<sub>2</sub>, the analytical MDL is on the order of 0.1 parts per billion by volume (ppbv). Validation tests conducted in Alberta show that results from passive sampling are typically within ten percent (10%) of those obtained from sampling with continuous analyzers for 30-day exposure periods (2015).

Since there are no MECP guidelines for monthly concentrations of SO<sub>2</sub> or NO<sub>2</sub> obtained from passive sampling, this data is used solely for screening purposes.

For NO<sub>2</sub>, the monthly results are compared against Ontario's 24-hour AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day (720-hour) average (78 µg/m<sup>3</sup>) using the methodology outlined in the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (Ontario Ministry of the Environment, Conservation and Parks, 2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta's 30-day Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).

## Section 4. MONITORING METHODS

### 4.1 HI-VOL AND PQ200 SAMPLERS

Stations are visited every six days to take samples for TSP, metals, and PM<sub>2.5</sub>. The exposed filter is recovered, and a pre-weighed filter is installed for the subsequent sample run.

Additional visits are made to the stations, as required, to resolve instrumentation issues, perform flow calibration checks, and preventative/proactive maintenance. All calibrations are performed in accordance with manufacturer specifications.

Flow calibrations are performed at least once per quarter by New Gold staff on the Hi-Vol TE-5170 Samplers using a Tisch Delta Calibration kit. The flow is calibrated to a flow rate of 1,133 litres per minute (LPM), which produces a sample volume of 1,632 m<sup>3</sup> in a 24-hour period.

For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly and are only calibrated if they don't pass the verification using an electronic BGI Flow Calibrator. The flow is calibrated to a flow rate of 16.7 LPM, which produces a sample volume of 24 m<sup>3</sup> in a 24-hour period.

**Table 4-1** below outlines the dates on which calibrations were performed on the Hi-Vol and PQ200 Samplers in this quarter. Calibration sheets for the samplers can be found in **Appendix D**. For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly.

**Table 4-1. Sampler Calibration Dates**

| Station                        | Hi-Vol Sampler Calibration Date                      | PQ200 Sampler Calibration Date |
|--------------------------------|--|--------------------------------|
| Tait Road (South Station)      | 14 <sup>th</sup> and 16 <sup>th</sup> September 2023 | -                              |
| Gallinger Road (North Station) | 13 <sup>th</sup> September 2023                      | -                              |
| Northwest Station (TMA)        | 13 <sup>th</sup> September 2023                      | -                              |

### 4.2 DUSTFALL SAMPLERS

The dustfall samplers containing algacide are changed monthly to correspond with the 30-day exposure period.

Dustfall jars are provided by the laboratory with screw-on lids to prevent sample loss during transport.

### 4.3 PASSIVE SAMPLERS

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.

Filters are kept in cassettes inside Ziploc bags until deployment to prevent premature exposure. After the sample is collected, the filter is placed back into the cassette and back into the Ziploc bag for shipment to the lab.

## Section 5. SAMPLING ISSUES

### 5.1 PERFORMANCE AND SITE AUDITS

There was one MECP audit in Q3.

### 5.2 EQUIPMENT AND SAMPLING ISSUES

There were four (4) samples invalidated in this quarter, as described in the table below and in **Appendix E**.

*Table 5-1. Q3 Invalidated Samples*

| Sample Date        | Station | Contaminant       | Reasoning  |
|--------------------|---------|-------------------|--|
| August 22, 2023    | North   | TSP               | Sample volume was below the lower volume limit   |
| September 9, 2023  | North   | TSP               | Sample volume was below the lower volume limit   |
| September 15, 2023 | South   | TSP               | Sample volume was above the maximum volume limit |
| July 29, 2023      | South   | PM <sub>2.5</sub> | Sample volume was below the lower volume limit   |

## Section 6. SAMPLING RESULTS

Sampling results for Q3 are presented in **Section 6.1** and **Appendix A-1** for TSP and metals, **Section 6.2** and **Appendix A-1** for PM<sub>2.5</sub>, **Section 6.3** and **Appendices A-2** and **A-3** for total dust fall, and **Section 6.4** and **Appendix A-4** for passive SO<sub>2</sub> and NO<sub>2</sub>.

In performing statistical analyses, as per the Operations Manual, a value of half the method detection limit is substituted for concentrations that are reported below the method detection limit. Laboratory Certificates of Analysis for all samples collected in Q3 are provided in **Appendix C**.

For comparative purposes, the Ontario AAQC and Canadian AAQS values are presented, where available. It is important to note that the Ontario AAQCs are equivalent to the standards prescribed by *Ontario Regulation 419/05: Air Pollution – Local Air Quality* (Government of Ontario, 2019).

Q3 presented fifteen (15) possible sampling days between July 1, 2023, and September 30, 2023, for the 6-day sampling schedule. Summaries of the analyses for TSP, metals, and PM<sub>2.5</sub> are presented in **Table 6-1**, **Table 6-2**, and **Table 6-3**, respectively.

Summaries of the analyses for total dustfall (incl. metals) and passive SO<sub>2</sub> and NO<sub>2</sub> are presented in **Table 6-4**, **Table 6-5**, **Table 6-6**, and **Table 6-7**.

## 6.1 TSP AND METALS

In this quarter, the Gallinger Road Station collected thirteen (13) valid samples (87% valid data). The Northwest Station collected fifteen (15) valid samples (100% valid data), while the Tait Road Station collected fourteen (14) valid samples (93% valid). Since the data for Gallinger station is below the 90% valid data threshold, statistical analyses for TSP and metals are computed using all data, including invalid samples.

For this quarter, the arithmetic mean of TSP concentration was 37.46  $\mu\text{g}/\text{m}^3$  at the Tait Road Station, 25.93  $\mu\text{g}/\text{m}^3$  at the Gallinger Road Station, and 31.77  $\mu\text{g}/\text{m}^3$  at the Northwest Station. Geometric means for the three stations were 29.57  $\mu\text{g}/\text{m}^3$ , 22.96  $\mu\text{g}/\text{m}^3$ , and 28.41  $\mu\text{g}/\text{m}^3$ , respectively.

The maximum 24-hour concentration for TSP was 89.39  $\mu\text{g}/\text{m}^3$  at the Tait Road Station on August 4<sup>th</sup> at the Tait Road Station, 59.30  $\mu\text{g}/\text{m}^3$  at the Gallinger Road Station on September 3<sup>rd</sup>, and 66.37  $\mu\text{g}/\text{m}^3$  at the Northwest Station on August 4<sup>th</sup>, 2023.

Laboratory data are provided as the mass of contaminant on the filter, in micrograms. This is divided by the total sample volume measured by the Hi-Vol Sampler to determine the concentration of the contaminant in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there were no exceedances observed for TSP.

Data is summarized for TSP and metals in **Table 6-1** and **Table 6-2**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1**, **Figure 6-1**, and **Figure 6-2**.

**Table 6-1. TSP Summary Statistics. Concentrations presented in  $\mu\text{g}/\text{m}^3$ .**

|                             | Tait Road Station | Gallinger Road Station | Northwest Station |
|-----------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples     | 14                | 13                     | 15                |
| % Valid Data                | 93%               | 87%                    | 100%              |
| Arithmetic Mean             | 37.46             | 25.93                  | 31.77             |
| Geometric Mean              | 29.57             | 22.96                  | 28.41             |
| 24-Hour Maximum             | 89.39             | 59.30                  | 66.37             |
| 24-Hour Minimum             | 6.30              | 5.39                   | 15.54             |
| April Maximum               | 57.47             | 32.48                  | 25.32             |
| May Maximum                 | 89.39             | 37.16                  | 66.37             |
| June Maximum                | 86.63             | 59.30                  | 53.30             |
| 90 <sup>th</sup> Percentile | 75.20             | 35.29                  | 52.48             |
| 95 <sup>th</sup> Percentile | 87.46             | 43.80                  | 57.22             |

|                      | Tait Road Station | Gallinger Road Station | Northwest Station |
|----------------------|-------------------|------------------------|-------------------|
| TSP AAQC             | 120               | 120                    | 120               |
| Samples > TSP AAQC   | 0                 | 0                      | 0                 |
| Samples > Metal AAQC | 0                 | 0                      | 0                 |

**Table 6-2. Maximum Concentrations of Metals. Concentrations presented in  $\mu\text{g}/\text{m}^3$ .**

| Metal | 24-Hour AAQC | Tait Road Station     |                  | Gallinger Road Station |                  | Northwest Station     |                  |
|-------|--------------|-----------------------|------------------|------------------------|------------------|-----------------------|------------------|
|       |              | Maximum Concentration | Fraction of AAQC | Maximum Concentration  | Fraction of AAQC | Maximum Concentration | Fraction of AAQC |
| As    | 0.3          | 9.57E-04              | 0.32%            | 1.11E-03               | 0.37%            | 1.02E-03              | 0.34%            |
| Cd    | 0.025        | 6.38E-04              | 2.55%            | 7.37E-04               | 2.95%            | 6.77E-04              | 2.71%            |
| Cr    | 0.5          | 4.55E-03              | 0.91%            | 4.15E-03               | 0.83%            | 6.70E-03              | 1.34%            |
| Co    | 0.1          | 6.38E-04              | 0.64%            | 7.37E-04               | 0.74%            | 6.77E-04              | 0.68%            |
| Cu    | 50           | 1.22E-01              | 0.24%            | 1.03E-01               | 0.21%            | 3.72E-01              | 0.74%            |
| Fe    | 4            | 1.76E+00              | 44.09%           | 7.27E-01               | 18.18%           | 1.41E+00              | 35.22%           |
| Pb    | 0.5          | 3.50E-03              | 0.70%            | 2.82E-03               | 0.56%            | 2.65E-03              | 0.53%            |
| Mn    | 0.4          | 7.77E-02              | 19.43%           | 4.15E-02               | 10.36%           | 3.92E-02              | 9.80%            |
| Ni    | 0.2          | 1.71E-02              | 8.56%            | 5.03E-03               | 2.51%            | 3.57E-03              | 1.78%            |
| Se    | 10           | 3.19E-03              | 0.03%            | 3.69E-03               | 0.04%            | 3.38E-03              | 0.03%            |
| V     | 2            | 3.32E-03              | 0.17%            | 1.84E-03               | 0.09%            | 1.69E-03              | 0.08%            |
| Zn    | 120          | 3.84E-02              | 0.03%            | 2.71E-02               | 0.02%            | 2.46E-02              | 0.02%            |



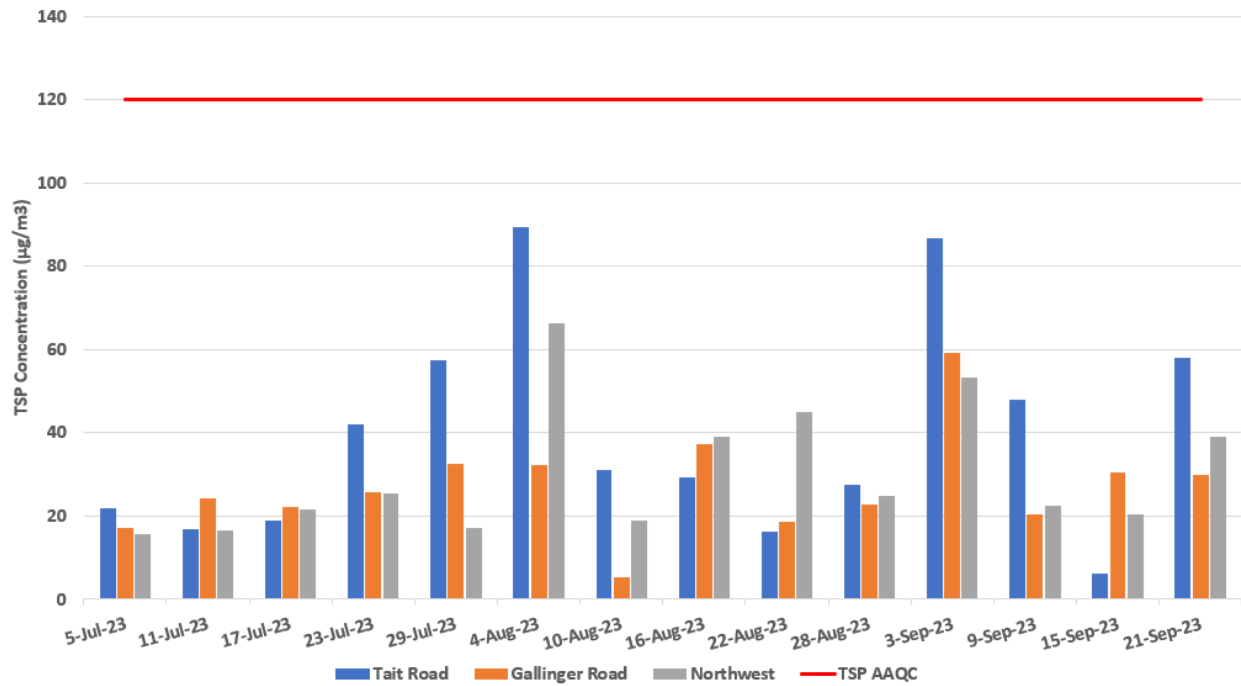
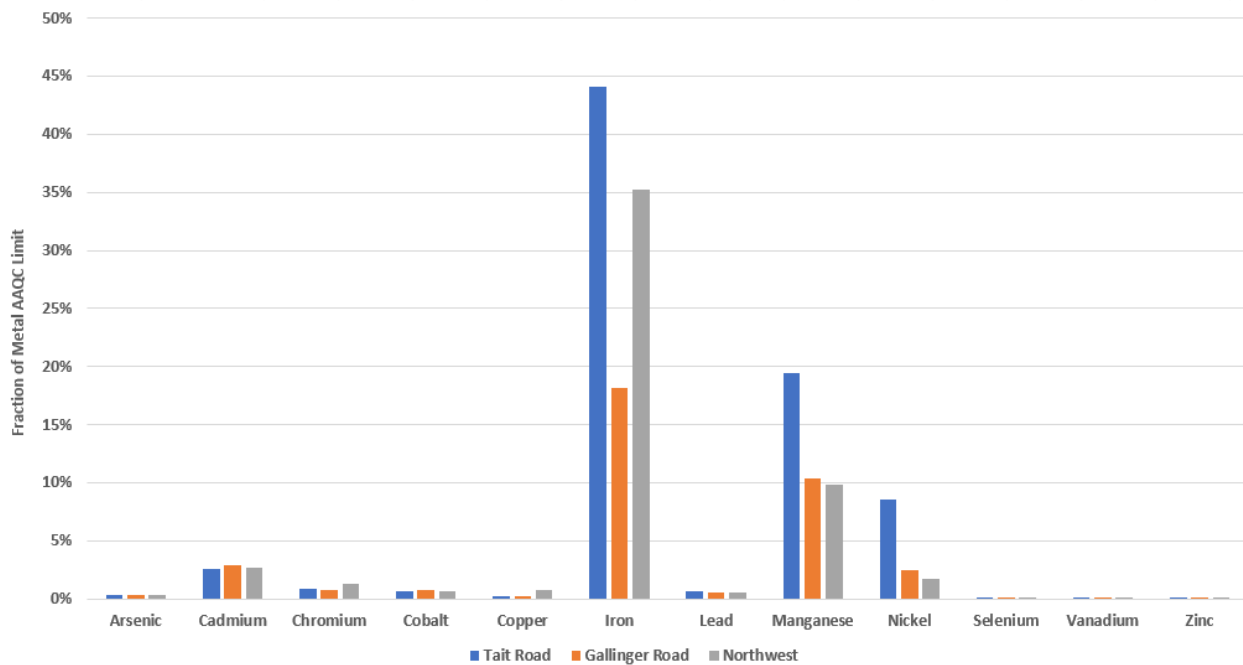


Figure 6-1. TSP Sampling Results



**Figure 6-2. Max Metal Sampling Result as a Fraction of Metal AAQC**

## 6.2 PM<sub>2.5</sub>

In this quarter, the Gallinger Road Station and the Northwest Station collected fifteen (15) valid samples, which represents 100% valid data. Tait Road Station collected fourteen (14) valid samples which represent 93% valid data.

For this quarter, the arithmetic mean for the PM<sub>2.5</sub> concentrations were 8.53 µg/m<sup>3</sup>, 7.30 µg/m<sup>3</sup>, and 8.69 µg/m<sup>3</sup> for the Tait Road Station, Gallinger Road Station, and Northwest Station, respectively.

The maximum 24-hour concentrations for PM<sub>2.5</sub> were 27.55 µg/m<sup>3</sup> at the Tait Road Station on July 23<sup>rd</sup>, 23.74 µg/m<sup>3</sup> at the Gallinger Road Station on July 23<sup>rd</sup>, and 25.18 µg/m<sup>3</sup> at the Northwest Station on July 23<sup>rd</sup>, 2023.

Laboratory data is provided as the mass of PM<sub>2.5</sub> on the filter, in micrograms. This value is divided by the total sample volume measured by the PQ200 Sampler to determine the concentration of PM<sub>2.5</sub> in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was one sample that exceeded the PM<sub>2.5</sub> AAQC or CAAQS (27 µg/m<sup>3</sup>).

Data is summarized for PM<sub>2.5</sub> in **Table 6-3**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1** and **Figure 6-3**.

**Table 6-3. PM<sub>2.5</sub> Summary Statistics. Concentrations presented in µg/m<sup>3</sup>.**

|                                  | <b>Tait Road Station</b> | <b>Gallinger Road Station</b> | <b>Northwest Station</b> |
|----------------------------------|--------------------------|-------------------------------|--------------------------|
| Number of Valid Samples          | 14                       | 15                            | 15                       |
| % Valid Data                     | 93%                      | 100%                          | 100%                     |
| Arithmetic Mean                  | 8.53                     | 7.30                          | 8.69                     |
| Geometric Mean                   | 4.99                     | 4.72                          | 5.52                     |
| 24-Hour Maximum                  | 27.55                    | 23.74                         | 25.18                    |
| 24-Hour Minimum                  | 0.31                     | 1.00                          | 0.31                     |
| April Maximum                    | 27.55                    | 23.74                         | 25.18                    |
| May Maximum                      | 21.22                    | 19.21                         | 20.68                    |
| June Maximum                     | 14.02                    | 11.89                         | 10.61                    |
| 90 <sup>th</sup> Percentile      | 18.34                    | 16.28                         | 16.94                    |
| 95 <sup>th</sup> Percentile      | 23.12                    | 20.57                         | 22.03                    |
| PM <sub>2.5</sub> AAQC           | 27                       | 27                            | 27                       |
| Samples > PM <sub>2.5</sub> AAQC | 1                        | 0                             | 0                        |
| MDL (µg)                         | 0                        | 0                             | 0                        |
| Samples < MDL                    | 0                        | 0                             | 0                        |

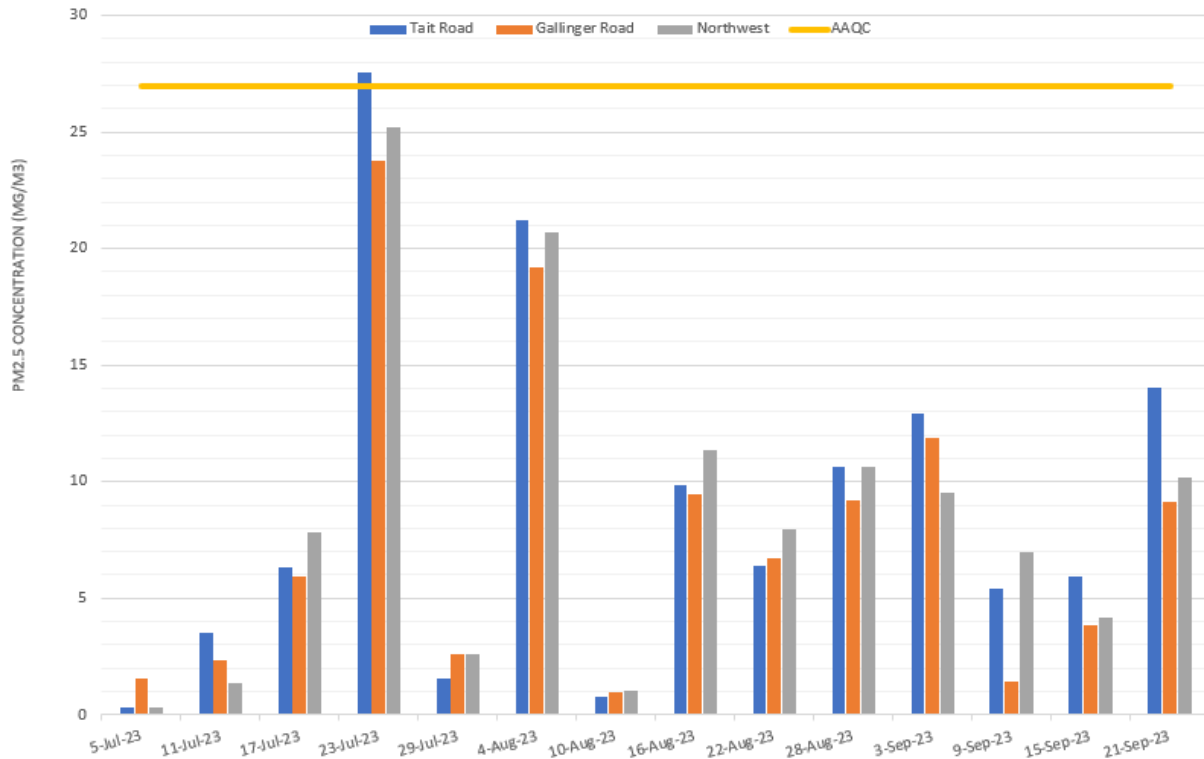


Figure 6-3. PM<sub>2.5</sub> Sampling Results

### 6.3 TOTAL DUSTFALL

New Gold operates three (3) ambient monitoring stations that measure 30-day dustfall levels: Tait Road, Gallinger Road, and Northwest.

In this quarter, the Tait Road, Gallinger Road, and the Northwest stations collected three (3) valid samples (100% valid data).

Laboratory data is provided as the mass of dustfall on the filter per square decimeter per day, in milligrams per decimeter square per day. This value is then converted to the appropriate units for reporting using the equation seen below:

$$Concentration \left( \frac{g}{m^2 \cdot 30 \text{ days}} \right) = Lab \text{ Concentration} \left( \frac{mg}{dm^2 \cdot day} \right) \times \frac{1 g}{1000 mg} \times \frac{100 dm^2}{1 m^2} \times \frac{30 \text{ days}}{30 \text{ days}}$$

During the laboratory analysis, total dustfall is speciated into soluble and insoluble portions, as well as fixed and volatile portions. The fixed portion of total dustfall is the portion of the total dustfall that remains after the sample is ignited at 550°C. The mass of the sample lost during ignition represents the volatile portion. In the summer months (i.e., Q2 and Q3), the volatile portion of the dustfall is largely made up of large, organic particles (e.g., leaves, twigs, bugs, etc.) that are deposited and retained in the sample. As a result, the total dustfall may overestimate the actual dustfall mass in the sample. For this reason, the analysis of dustfall shows both fixed

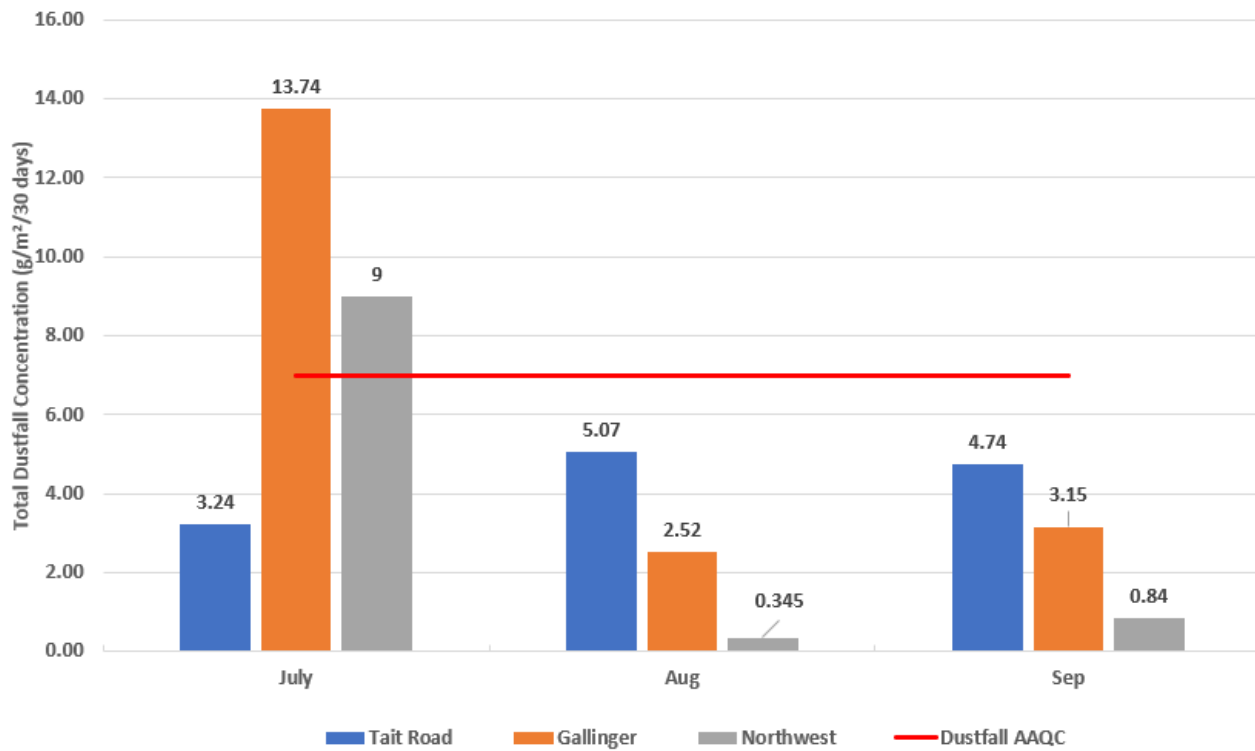
dustfall and total dustfall. The total dustfall versus fixed dustfall masses are compared in **Figure 6-5** and **Figure 6-6**.

In this quarter, there were two samples that exceeded the total dustfall 30-day Ontario AAQC (7 g/m<sup>2</sup>/30 days).

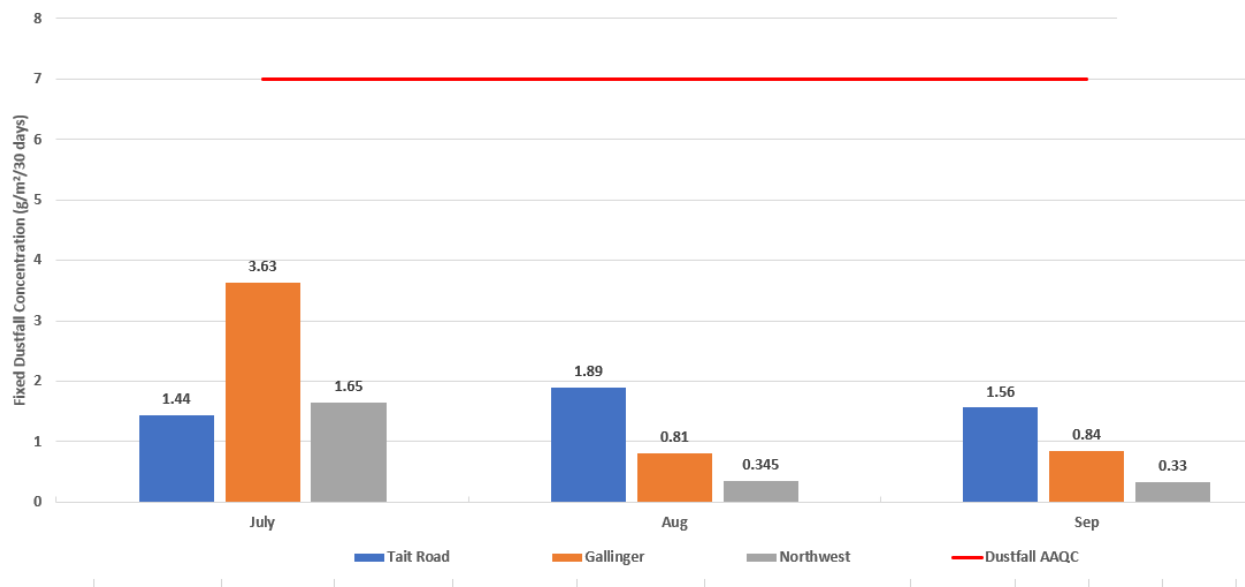
Data is summarized for total dustfall in **Table 6-4**. Sample data from all runs and further statistical analyses are presented in **Appendix A-2**.

**Table 6-4. Total Dustfall Summary Statistics.**  
Concentrations presented in g/m<sup>2</sup>/30 days.

|                         | Tait Road Station | Gallinger Road Station | Northwest Station |
|-------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples | 3                 | 3                      | 3                 |
| % Valid Data            | 100%              | 100%                   | 100%              |
| Arithmetic Mean         | 4.35              | 6.47                   | 3.40              |
| Monthly Maximum         | 5.07              | 13.74                  | 9                 |
| Dustfall AAQC           | 7                 | 7                      | 7                 |
| Samples > Dustfall AAQC | 0                 | 1                      | 1                 |
| Samples < MDL           | 0                 | 0                      | 0                 |



**Figure 6-3. Total Dustfall Sampling Results at POI Stations**



**Figure 6-4. Fixed Dustfall Sampling Results at POI Stations**

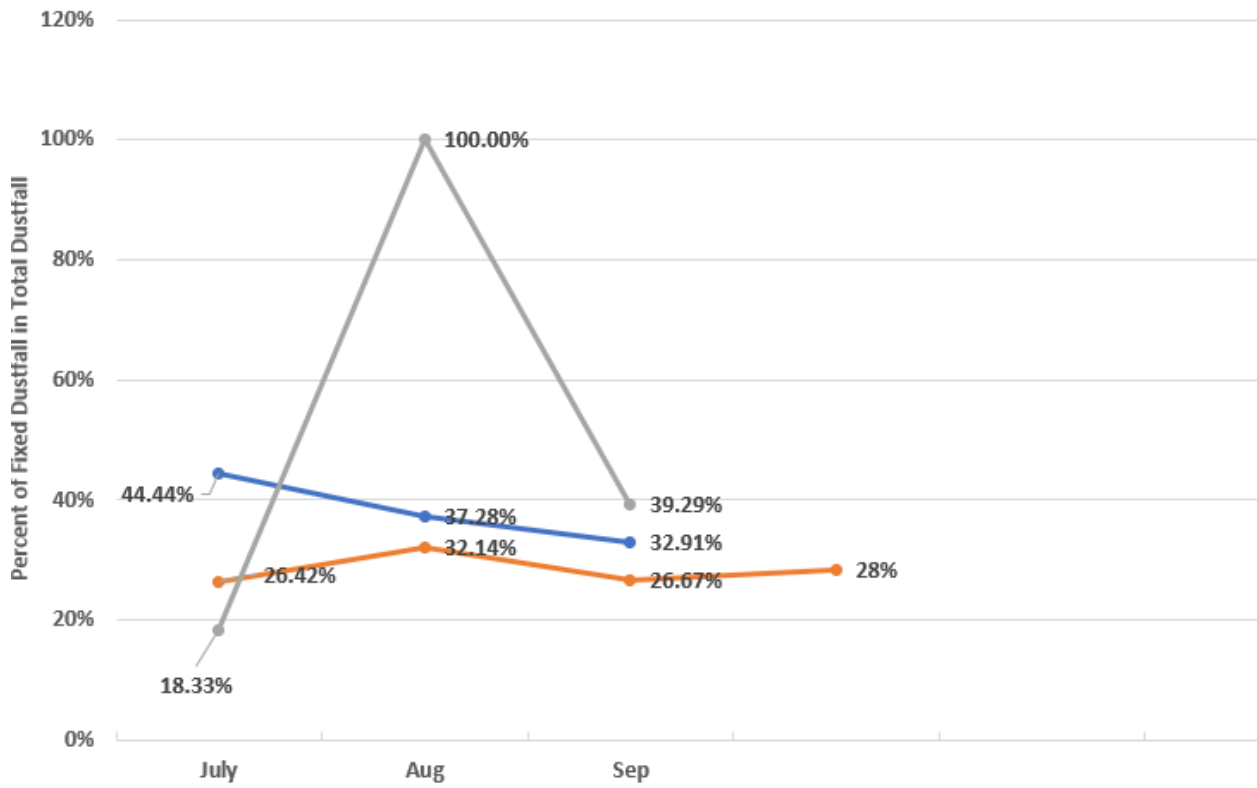


Figure 6-5. Percent of Fixed Dustfall in Total Dustfall

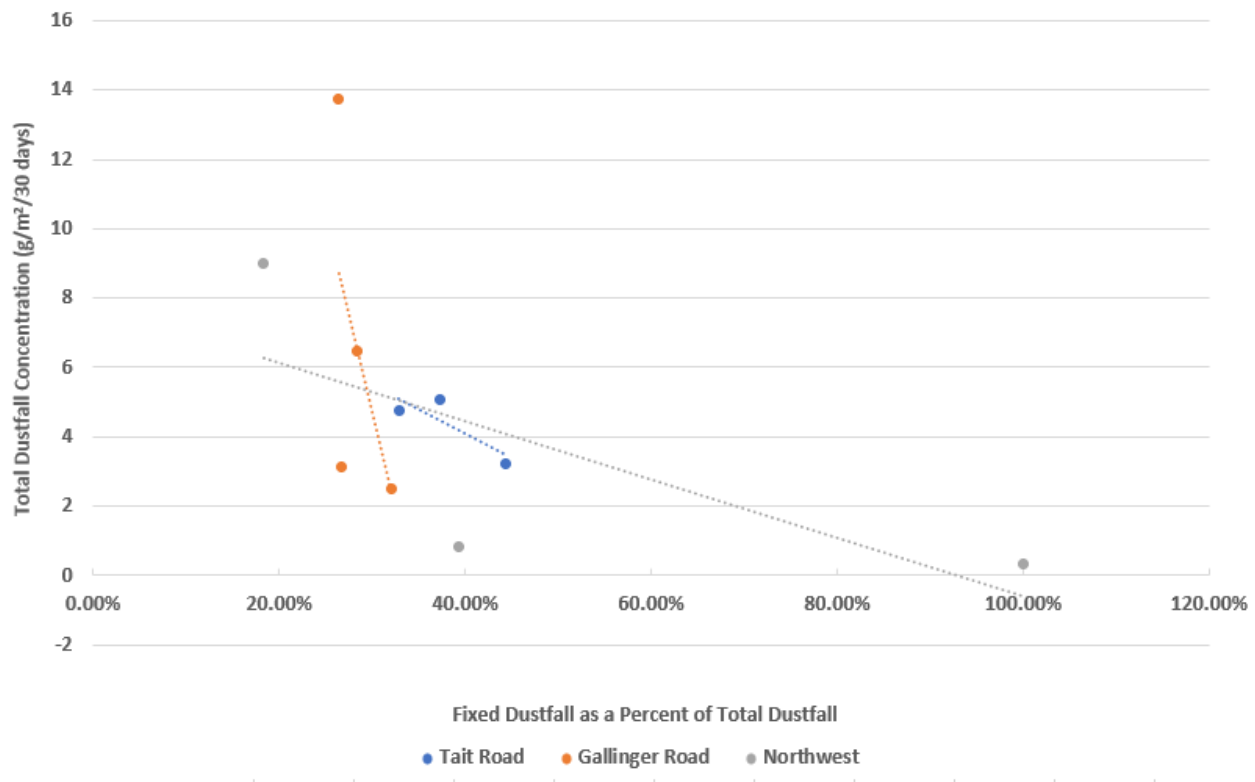


Figure 6-6. Fixed Dustfall Fraction vs. Total Dustfall Concentration

## 6.4 PASSIVE SO<sub>2</sub> AND NO<sub>2</sub>

The Tait Road and Gallinger Road Stations collected three (3) valid samples out of a possible three (3) sampling opportunities (100% valid data) in this quarter.

There are no MECP standards, guidelines, or Ontario AAQCs for SO<sub>2</sub> or NO<sub>2</sub> for a 30-day averaging period. Instead, the 30-day measured average SO<sub>2</sub> or NO<sub>2</sub> concentrations allow for future analysis of trends in the ambient concentrations, identification of notable increases, and comparison with dispersion modelling results.

For NO<sub>2</sub>, the monthly results are compared against Ontario's 24-hour NO<sub>2</sub> AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day average (78 µg/m<sup>3</sup>) using the methodology outlined in Table 7-1 of the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta's 30-day SO<sub>2</sub> Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).

For this quarter, the arithmetic mean SO<sub>2</sub> concentration was 0.17 µg/m<sup>3</sup> at the Tait Road and 0.17 µg/m<sup>3</sup> at the Gallinger Road Stations. The arithmetic mean NO<sub>2</sub> concentrations were 1 µg/m<sup>3</sup> and 0.56 µg/m<sup>3</sup> at the Tait Road and Gallinger Road Stations, respectively.



The maximum monthly concentrations of SO<sub>2</sub> were 0.26 µg/m<sup>3</sup> for the Tait Road in month of August and Gallinger Road stations in month of August. The maximum monthly concentration of NO<sub>2</sub> was 1.32 µg/m<sup>3</sup> at the Tait Road Station in September and 0.75 µg/m<sup>3</sup> at the Gallinger Road Station in September and July respectively.

Laboratory data is provided as the concentration of the contaminant in the sample, in parts per billion by volume. This value is then converted to the appropriate units for reporting using the equation seen below:

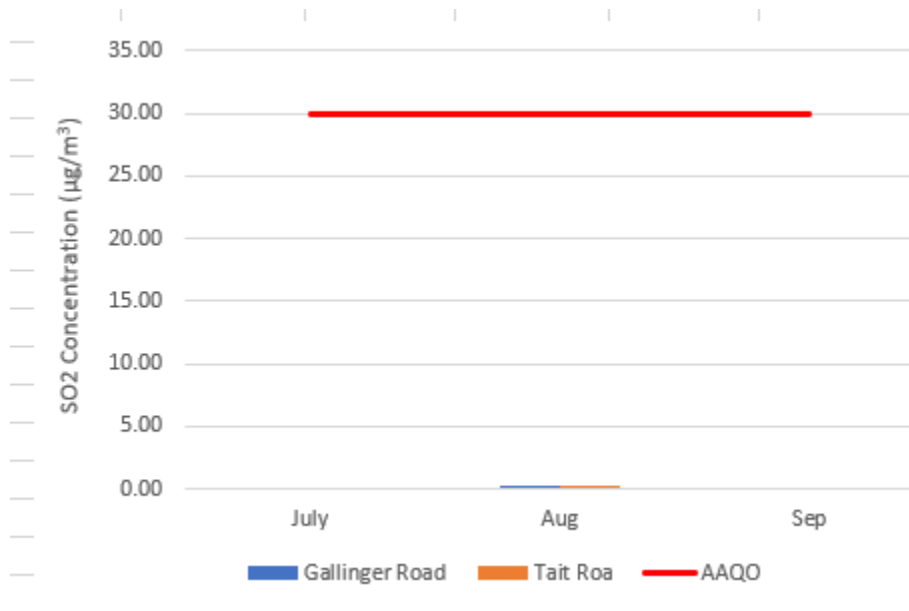
$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \text{Lab Concentration } (\text{ppbv}) \times \frac{\text{Molecular Weight}}{\text{Molar Volume}}$$

In this quarter, there were no samples that exceeded the converted 24-hour NO<sub>2</sub> Ontario AAQC (78 µg/m<sup>3</sup>), and no samples that exceeded the 30-day Alberta SO<sub>2</sub> AAQO (30 µg/m<sup>3</sup>).

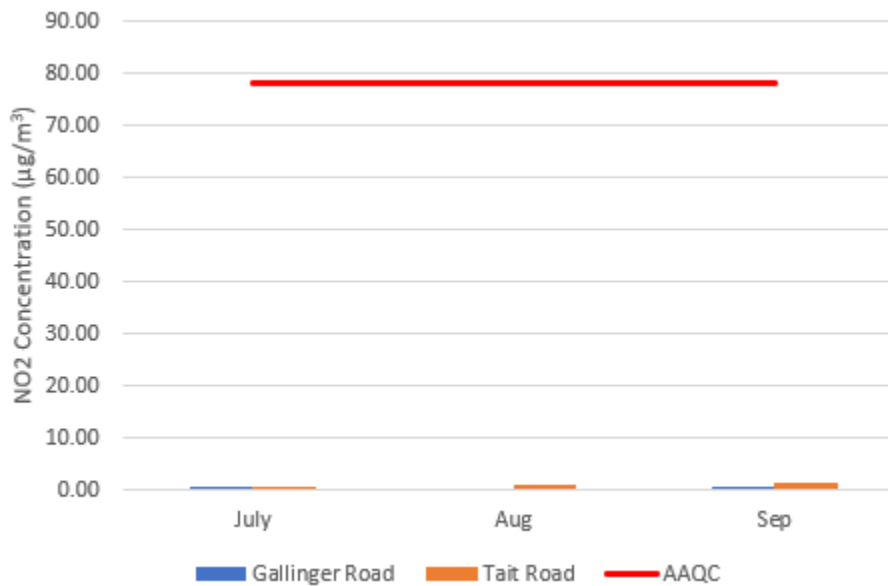
Data is summarized for SO<sub>2</sub> and NO<sub>2</sub> in **Table 6-7**. Sample data from all runs and further statistical analyses are presented in **Appendix A-4**.

**Table 6-5: Summary Statistics for SO<sub>2</sub> and NO<sub>2</sub>.**  
Concentrations presented in µg/m<sup>3</sup>.

|                         | Tait Road Station |                 | Gallinger Road Station |                 |  |
|-------------------------|-------------------|-----------------|------------------------|-----------------|--|
|                         | SO <sub>2</sub>   | NO <sub>2</sub> | SO <sub>2</sub>        | NO <sub>2</sub> |  |
| Number of Valid Samples | 3                 | 3               | 3                      | 3               |  |
| % Valid Data            | 100%              | 100%            | 100%                   | 100%            |  |
| Arithmetic Mean         | 0.17              | 1.00            | 0.17                   | 0.56            |  |
| Monthly Maximum         | 0.26              | 1.32            | 0.26                   | 0.75            |  |
| Limit                   | 30                | 78              | 30                     | 78              |  |
| Samples > Limit         | 0                 | 0               | 0                      | 0               |  |
| MDL                     | 0.26              | 0.19            | 0.26                   | 0.19            |  |
| Samples < MDL           | 3                 | 0               | 2                      | 0               |  |



**Figure 6-5. SO<sub>2</sub> Monitoring Results**



**Figure 6-8. NO<sub>2</sub> Monitoring Results**

**Section 7. MITIGATION MEASURES**

No mitigation measures have been implemented at this time.

## **Section 8. CONCLUSION**

The Rainy River Mine Ambient Air Quality Monitoring Program was conducted in the third quarter of 2023 in accordance with the Site's Amended Environmental Compliance Approval (ECA) Number 0412-A2LR4V and the MECP Program Approval Letter.

Samples were taken every sixth (6<sup>th</sup>) day for total suspended particulate matter (TSP), metals, and respirable particulate matter (PM<sub>2.5</sub>). Samples were taken monthly for total dustfall, sulphur dioxide (SO<sub>2</sub>), and nitrogen dioxide (NO<sub>2</sub>).

These samples were sent out for analysis in accordance with the methods prescribed in the Operations Manual.

There were no exceedances of the TSP limit.

There was one (1) exceedance of the PM<sub>2.5</sub> limit on July 23, 2023, at Tait Road Station

There were two (2) exceedances of the total dust fall limit in July 2023 at the Gallinger Road Station and Northwest Station.

## Section 9. REFERENCES

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## Section 10. CLOSING

The *Rainy River Mine Ambient Air Quality Monitoring Program Third Quarter 2023 Report* was prepared by New Gold Inc. The quality of information, conclusions, and estimates contained herein are based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this document.

If you require further information regarding the above, or the Mine in general, please contact the undersigned at 1(807) 234-8170.

Sincerely,

New Gold Inc.

Rainy River Mine

Prepared By:

Garnet Cornell

Environment Manager

# APPENDIX A: SAMPLING RESULTS

Appendix A-1 TSP, Metals, and PM<sub>2.5</sub> Sampling Results

Appendix A-2 Total Dustfall Sampling Results

Appendix A-3 SO<sub>2</sub> and NO<sub>2</sub> Passive Sampling Results



**APPENDIX A-1:**  
**TSP, METALS, AND PM<sub>2.5</sub> SAMPLING RESULTS**

| Tait Road Station Monitoring Results             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
|--|-------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| (Concentrations expressed in µg/m <sup>3</sup> ) |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| Date   | TSP   | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
| 5-Jul-23   | 21.82 | <u>9.09E-04</u> | <u>6.06E-04</u> | <u>1.52E-03</u> | <u>6.06E-04</u> | 1.04E-01 | 4.15E-01 | <u>9.09E-04</u> | 1.35E-02 | <u>9.09E-04</u> | <u>3.03E-03</u> | <u>1.52E-03</u> | 1.06E-02 | <u>0.31</u>       |
| 11-Jul-23  | 16.87 | <u>8.73E-04</u> | <u>5.82E-04</u> | <u>1.45E-03</u> | <u>5.82E-04</u> | 8.96E-02 | 1.59E-01 | <u>8.73E-04</u> | 4.89E-03 | <u>8.73E-04</u> | <u>2.91E-03</u> | <u>1.45E-03</u> | 5.70E-03 | 3.50              |
| 17-Jul-23  | 18.83 | <u>8.86E-04</u> | <u>5.90E-04</u> | <u>1.48E-03</u> | <u>5.90E-04</u> | 9.74E-02 | 1.13E-01 | <u>8.86E-04</u> | 4.07E-03 | <u>8.86E-04</u> | <u>2.95E-03</u> | <u>1.48E-03</u> | 6.85E-03 | 6.33              |
| 23-Jul-23  | 41.96 | <u>9.57E-04</u> | <u>6.38E-04</u> | <u>1.59E-03</u> | <u>6.38E-04</u> | 1.07E-01 | 6.38E-01 | <u>9.57E-04</u> | 2.65E-02 | <u>9.57E-04</u> | <u>3.19E-03</u> | <u>1.59E-03</u> | 1.65E-02 | 27.55             |
| 29-Jul-23  | 57.47 | <u>9.34E-04</u> | <u>6.23E-04</u> | 4.55E-03        | <u>6.23E-04</u> | 1.22E-01 | 1.62E+00 | 2.49E-03        | 5.19E-02 | 1.71E-02        | <u>3.11E-03</u> | <u>1.56E-03</u> | 2.22E-02 | 1.53              |
| 4-Aug-23   | 89.39 | <u>9.06E-04</u> | <u>6.04E-04</u> | 4.35E-03        | <u>6.04E-04</u> | 8.28E-02 | 1.76E+00 | <u>9.06E-04</u> | 3.67E-02 | 2.78E-03        | <u>3.02E-03</u> | 3.32E-03        | 1.49E-02 | 21.22             |
| 10-Aug-23  | 31.04 | <u>9.46E-04</u> | <u>6.31E-04</u> | <u>1.58E-03</u> | <u>6.31E-04</u> | 9.34E-02 | 4.80E-01 | <u>9.46E-04</u> | 2.35E-02 | <u>9.46E-04</u> | <u>3.15E-03</u> | <u>1.58E-03</u> | 2.13E-02 | 0.79              |
| 16-Aug-23  | 29.38 | <u>9.14E-04</u> | <u>6.10E-04</u> | <u>1.52E-03</u> | <u>6.10E-04</u> | 7.13E-02 | 2.66E-01 | <u>9.14E-04</u> | 1.16E-02 | <u>9.14E-04</u> | <u>3.05E-03</u> | <u>1.52E-03</u> | 1.18E-02 | 9.87              |
| 22-Aug-23  | 16.19 | <u>9.34E-04</u> | <u>6.23E-04</u> | <u>1.56E-03</u> | <u>6.23E-04</u> | 6.22E-02 | 1.06E-01 | <u>9.34E-04</u> | 4.36E-03 | <u>9.34E-04</u> | <u>3.11E-03</u> | <u>1.56E-03</u> | 7.79E-03 | 6.41              |
| 28-Aug-23  | 27.58 | <u>8.91E-04</u> | <u>5.94E-04</u> | <u>1.49E-03</u> | <u>5.94E-04</u> | 8.50E-02 | 2.97E-01 | <u>8.91E-04</u> | 1.27E-02 | <u>8.91E-04</u> | <u>2.97E-03</u> | <u>1.49E-03</u> | 1.07E-02 | 10.61             |
| 3-Sep-23   | 86.63 | <u>9.55E-04</u> | <u>6.37E-04</u> | 3.89E-03        | <u>6.37E-04</u> | 7.07E-02 | 1.53E+00 | 3.50E-03        | 7.77E-02 | 2.74E-03        | <u>3.18E-03</u> | <u>1.59E-03</u> | 3.84E-02 | 12.90             |
| 9-Sep-23   | 47.91 | <u>9.07E-04</u> | <u>6.05E-04</u> | <u>1.51E-03</u> | <u>6.05E-04</u> | 7.98E-02 | 7.50E-01 | <u>9.07E-04</u> | 2.86E-02 | <u>9.07E-04</u> | <u>3.02E-03</u> | <u>1.51E-03</u> | 2.59E-02 | 5.41              |
| 15-Sep-23  | 6.30  | <u>2.85E-04</u> | <u>1.90E-04</u> | <u>4.76E-04</u> | <u>1.90E-04</u> | 1.66E-02 | 1.07E-01 | <u>2.85E-04</u> | 3.60E-03 | <u>2.85E-04</u> | <u>9.52E-04</u> | <u>4.76E-04</u> | 2.63E-03 | 5.95              |
| 21-Sep-23  | 58.06 | <u>9.06E-04</u> | <u>6.04E-04</u> | <u>1.51E-03</u> | <u>6.04E-04</u> | 9.97E-02 | 8.28E-01 | <u>9.06E-04</u> | 3.24E-02 | <u>9.06E-04</u> | <u>3.02E-03</u> | <u>1.51E-03</u> | 2.32E-02 | 14.02             |
| 27-Sep-23  | 12.53 | <u>9.13E-04</u> | <u>6.08E-04</u> | <u>1.52E-03</u> | <u>6.08E-04</u> | 6.27E-02 | 1.58E-01 | <u>9.13E-04</u> | 3.59E-03 | <u>9.13E-04</u> | <u>3.04E-03</u> | <u>1.52E-03</u> | 4.87E-03 | 1.54              |
| <b>Arithmetic Mean</b>                           | 37.46 | 8.74E-04        | 5.83E-04        | 2.00E-03        | 5.83E-04        | 8.29E-02 | 6.15E-01 | 1.15E-03        | 2.24E-02 | 2.20E-03        | 2.91E-03        | 1.58E-03        | 1.49E-02 | 8.53              |
| <b>Geometric Mean</b>                            | 29.57 | 8.48E-04        | 5.65E-04        | 1.73E-03        | 5.65E-04        | 7.71E-02 | 3.95E-01 | 9.87E-04        | 1.42E-02 | 1.19E-03        | 2.83E-03        | 1.49E-03        | 1.19E-02 | 4.99              |
| <b>Max Sample</b>                                | 89.39 | 9.57E-04        | 6.38E-04        | 4.55E-03        | 6.38E-04        | 1.22E-01 | 1.76E+00 | 3.50E-03        | 7.77E-02 | 1.71E-02        | 3.19E-03        | 3.32E-03        | 3.84E-02 | 27.55             |
| <b>Min Sample</b>                                | 6.30  | 2.85E-04        | 1.90E-04        | 4.76E-04        | 1.90E-04        | 1.66E-02 | 1.06E-01 | 2.85E-04        | 3.59E-03 | 2.85E-04        | 9.52E-04        | 4.76E-04        | 2.63E-03 | 0.31              |
| <b>AAQC Limit</b>                                | 120   | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27                |
| <b>No. &gt; AAQC Limit</b>                       | 0     | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 1                 |
| <b>No. Valid Samples</b>                         | 14    | 14              | 14              | 14              | 14              | 14       | 14       | 14              | 14       | 14              | 14              | 14              | 14       | 15                |
| <b>MDL (µg)</b>                                  | 2,300 | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 15                |
| <b>No. &lt; MDL</b>                              | 0     | 15              | 15              | 12              | 15              | 0        | 0        | 13              | 0        | 12              | 15              | 14              | 0        | 1                 |
| <b>% of Valid Samples</b>                        | 93%   | 93%             | 93%             | 93%             | 93%             | 93%      | 93%      | 93%             | 93%      | 93%             | 93%             | 93%             | 93%      | 100%              |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

| Gallinger Road Station Monitoring Results (North) |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
|---|-------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| (concentrations expressed in µg/m <sup>3</sup> )  |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| Date  | TSP   | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
| 5-Jul-23  | 17.25 | <u>9.05E-04</u> | <u>6.03E-04</u> | <u>1.51E-03</u> | <u>6.03E-04</u> | 9.83E-02 | 2.20E-01 | <u>9.05E-04</u> | 8.32E-03 | <u>9.05E-04</u> | <u>3.02E-03</u> | <u>1.51E-03</u> | 8.93E-03 | 1.58              |
| 11-Jul-23   | 24.28 | <u>8.95E-04</u> | <u>5.97E-04</u> | <u>1.49E-03</u> | <u>5.97E-04</u> | 7.58E-02 | 2.52E-01 | <u>8.95E-04</u> | 1.06E-02 | <u>8.95E-04</u> | <u>2.98E-03</u> | <u>1.49E-03</u> | 1.07E-02 | 2.37              |
| 17-Jul-23   | 22.02 | <u>9.25E-04</u> | <u>6.17E-04</u> | <u>1.54E-03</u> | <u>6.17E-04</u> | 9.44E-02 | 7.46E-02 | <u>9.25E-04</u> | 4.01E-03 | <u>9.25E-04</u> | <u>3.08E-03</u> | <u>1.54E-03</u> | 6.72E-03 | 5.90              |
| 23-Jul-23   | 25.62 | <u>9.00E-04</u> | <u>6.00E-04</u> | <u>1.50E-03</u> | <u>6.00E-04</u> | 8.22E-02 | 4.74E-02 | <u>9.00E-04</u> | 3.06E-03 | <u>9.00E-04</u> | <u>3.00E-03</u> | <u>1.50E-03</u> | 8.34E-03 | 23.74             |
| 29-Jul-23   | 32.48 | <u>1.02E-03</u> | <u>6.80E-04</u> | 4.15E-03        | <u>6.80E-04</u> | 6.67E-02 | 7.27E-01 | <u>1.02E-03</u> | 2.15E-02 | 5.03E-03        | <u>3.40E-03</u> | <u>1.70E-03</u> | 8.83E-03 | 2.58              |
| 4-Aug-23  | 32.22 | <u>9.33E-04</u> | <u>6.22E-04</u> | <u>1.55E-03</u> | <u>6.22E-04</u> | 5.35E-02 | 1.79E-01 | <u>9.33E-04</u> | 5.47E-03 | <u>9.33E-04</u> | <u>3.11E-03</u> | <u>1.55E-03</u> | 1.39E-02 | 19.21             |
| 10-Aug-23   | 5.39  | <u>9.51E-04</u> | <u>6.34E-04</u> | <u>1.59E-03</u> | <u>6.34E-04</u> | 4.88E-02 | 1.26E-01 | <u>9.51E-04</u> | 3.42E-03 | <u>9.51E-04</u> | <u>3.17E-03</u> | <u>1.59E-03</u> | 5.58E-03 | 1.00              |
| 16-Aug-23   | 37.16 | <u>1.02E-03</u> | <u>6.81E-04</u> | <u>1.70E-03</u> | <u>6.81E-04</u> | 3.86E-02 | 3.80E-01 | <u>1.02E-03</u> | 1.69E-02 | <u>1.02E-03</u> | <u>3.40E-03</u> | <u>1.70E-03</u> | 2.06E-02 | 9.48              |
| 22-Aug-23   | 18.58 | <u>1.11E-03</u> | <u>7.37E-04</u> | <u>1.84E-03</u> | <u>7.37E-04</u> | 4.45E-02 | 1.24E-01 | <u>1.11E-03</u> | 5.53E-03 | <u>1.11E-03</u> | <u>3.69E-03</u> | <u>1.84E-03</u> | 1.25E-02 | 6.69              |
| 28-Aug-23   | 22.62 | <u>8.91E-04</u> | <u>5.94E-04</u> | <u>1.48E-03</u> | <u>5.94E-04</u> | 6.00E-02 | 1.30E-01 | <u>8.91E-04</u> | 6.53E-03 | <u>8.91E-04</u> | <u>2.97E-03</u> | <u>1.48E-03</u> | 9.20E-03 | 9.23              |
| 3-Sep-23  | 59.30 | <u>9.60E-04</u> | <u>6.40E-04</u> | <u>1.60E-03</u> | <u>6.40E-04</u> | 6.46E-02 | 5.85E-01 | <u>9.60E-04</u> | 4.15E-02 | <u>9.60E-04</u> | <u>3.20E-03</u> | <u>1.60E-03</u> | 2.10E-02 | 11.89             |

|                            |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |       |
|----------------------------|-------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------|
| 9-Sep-23                   | 20.37 | <u>1.04E-03</u> | <u>6.93E-04</u> | <u>1.73E-03</u> | <u>6.93E-04</u> | 6.86E-02 | 1.03E-01 | <u>1.04E-03</u> | 4.02E-03 | <u>1.04E-03</u> | <u>3.46E-03</u> | <u>1.73E-03</u> | 6.65E-03 | 1.41  |
| 15-Sep-23                  | 30.34 | <u>9.40E-04</u> | <u>6.27E-04</u> | <u>1.57E-03</u> | <u>6.27E-04</u> | 1.03E-01 | 3.92E-01 | 2.82E-03        | 1.92E-02 | <u>9.40E-04</u> | <u>3.13E-03</u> | <u>1.57E-03</u> | 2.71E-02 | 3.83  |
| 21-Sep-23                  | 29.89 | <u>1.00E-03</u> | <u>6.67E-04</u> | <u>1.67E-03</u> | <u>6.67E-04</u> | 9.94E-02 | 1.55E-01 | <u>1.00E-03</u> | 7.01E-03 | <u>1.00E-03</u> | <u>3.34E-03</u> | <u>1.67E-03</u> | 8.81E-03 | 9.11  |
| 27-Sep-23                  | 11.40 | <u>9.45E-04</u> | <u>6.30E-04</u> | <u>1.57E-03</u> | <u>6.30E-04</u> | 9.07E-02 | 1.08E-01 | <u>9.45E-04</u> | 2.64E-03 | <u>9.45E-04</u> | <u>3.15E-03</u> | <u>1.57E-03</u> | 5.23E-03 | 1.46  |
| <b>Arithmetic Mean</b>     | 25.93 | 9.62E-04        | 6.41E-04        | 1.77E-03        | 6.41E-04        | 7.26E-02 | 2.40E-01 | 1.09E-03        | 1.06E-02 | 1.23E-03        | 3.21E-03        | 1.60E-03        | 1.16E-02 | 7.30  |
| <b>Geometric Mean</b>      | 22.96 | 9.60E-04        | 6.40E-04        | 1.70E-03        | 6.40E-04        | 6.95E-02 | 1.82E-01 | 1.03E-03        | 7.58E-03 | 1.07E-03        | 3.20E-03        | 1.60E-03        | 1.03E-02 | 4.72  |
| <b>Max Sample</b>          | 59.30 | 1.11E-03        | 7.37E-04        | 4.15E-03        | 7.37E-04        | 1.03E-01 | 7.27E-01 | 2.82E-03        | 4.15E-02 | 5.03E-03        | 3.69E-03        | 1.84E-03        | 2.71E-02 | 23.74 |
| <b>Min Sample</b>          | 5.39  | 8.91E-04        | 5.94E-04        | 1.48E-03        | 5.94E-04        | 3.86E-02 | 4.74E-02 | 8.91E-04        | 2.64E-03 | 8.91E-04        | 2.97E-03        | 1.48E-03        | 5.23E-03 | 1.00  |
| <b>AAQC Limit</b>          | 120   | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27    |
| <b>No. &gt; AAQC Limit</b> | 0     | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 0     |
| <b>No. Valid Samples</b>   | 13    | 13              | 13              | 13              | 13              | 13       | 13       | 13              | 13       | 13              | 13              | 13              | 13       | 15    |
| <b>MDL (µg)</b>            | 2,300 | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 15    |
| <b>No. &lt; MDL</b>        | 0     | 15              | 15              | 14              | 15              | 0        | 0        | 13              | 0        | 14              | 15              | 15              | 0        | 0     |
| <b>% of Valid Samples</b>  | 87%   | 87%             | 87%             | 87%             | 87%             | 87%      | 87%      | 87%             | 87%      | 87%             | 87%             | 87%             | 87%      | 100%  |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

| Northwest Station Monitoring Results             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
|--|-------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| (concentrations expressed in µg/m <sup>3</sup> ) |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| Date   | TSP   | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
| 5-Jul-23   | 15.54 | <u>9.29E-04</u> | <u>6.19E-04</u> | <u>1.55E-03</u> | <u>6.19E-04</u> | 2.48E-01 | 1.03E-01 | <u>9.29E-04</u> | 3.16E-03 | <u>9.29E-04</u> | <u>3.10E-03</u> | <u>1.55E-03</u> | 5.64E-03 | <u>0.31</u>       |
| 11-Jul-23  | 16.42 | <u>9.33E-04</u> | <u>6.22E-04</u> | <u>1.55E-03</u> | <u>6.22E-04</u> | 2.45E-01 | 5.72E-02 | <u>9.33E-04</u> | 2.43E-03 | <u>9.33E-04</u> | <u>3.11E-03</u> | <u>1.55E-03</u> | 6.47E-03 | 1.37              |
| 17-Jul-23  | 21.64 | <u>9.87E-04</u> | <u>6.58E-04</u> | <u>1.64E-03</u> | <u>6.58E-04</u> | 1.62E-01 | 5.33E-02 | <u>9.87E-04</u> | 2.83E-03 | <u>9.87E-04</u> | <u>3.29E-03</u> | <u>1.64E-03</u> | 6.18E-03 | 7.82              |
| 23-Jul-23  | 25.32 | <u>9.71E-04</u> | <u>6.48E-04</u> | <u>1.62E-03</u> | <u>6.48E-04</u> | 2.30E-01 | 2.10E-01 | <u>9.71E-04</u> | 7.97E-03 | <u>9.71E-04</u> | <u>3.24E-03</u> | <u>1.62E-03</u> | 1.05E-02 | 25.18             |
| 29-Jul-23  | 17.14 | <u>9.38E-04</u> | <u>6.25E-04</u> | <u>1.56E-03</u> | <u>6.25E-04</u> | 1.83E-01 | 1.10E-01 | <u>9.38E-04</u> | 2.69E-03 | <u>9.38E-04</u> | <u>3.13E-03</u> | <u>1.56E-03</u> | 4.82E-03 | 2.62              |
| 4-Aug-23   | 66.37 | <u>9.39E-04</u> | <u>6.26E-04</u> | 6.70E-03        | <u>6.26E-04</u> | 1.38E-01 | 1.41E+00 | <u>9.39E-04</u> | 3.92E-02 | 3.57E-03        | <u>3.13E-03</u> | <u>1.57E-03</u> | 2.46E-02 | 20.68             |
| 10-Aug-23  | 18.94 | <u>9.02E-04</u> | <u>6.01E-04</u> | <u>1.50E-03</u> | <u>6.01E-04</u> | 1.49E-01 | 4.95E-01 | <u>9.02E-04</u> | 1.47E-02 | <u>9.02E-04</u> | <u>3.01E-03</u> | <u>1.50E-03</u> | 9.74E-03 | 1.04              |
| 16-Aug-23  | 39.06 | <u>9.32E-04</u> | <u>6.21E-04</u> | <u>1.55E-03</u> | <u>6.21E-04</u> | 9.44E-02 | 5.79E-01 | <u>9.32E-04</u> | 2.45E-02 | <u>9.32E-04</u> | <u>3.11E-03</u> | <u>1.55E-03</u> | 1.66E-02 | 11.32             |
| 22-Aug-23  | 45.10 | <u>9.47E-04</u> | <u>6.32E-04</u> | 3.54E-03        | <u>6.32E-04</u> | 7.20E-02 | 8.15E-01 | 2.65E-03        | 3.24E-02 | <u>9.47E-04</u> | <u>3.16E-03</u> | <u>1.58E-03</u> | 2.43E-02 | 7.95              |
| 28-Aug-23  | 24.79 | <u>9.02E-04</u> | <u>6.02E-04</u> | <u>1.50E-03</u> | <u>6.02E-04</u> | 1.98E-01 | 2.36E-01 | <u>9.02E-04</u> | 1.00E-02 | <u>9.02E-04</u> | <u>3.01E-03</u> | <u>1.50E-03</u> | 1.04E-02 | 10.65             |
| 3-Sep-23   | 53.30 | <u>9.52E-04</u> | <u>6.34E-04</u> | <u>1.59E-03</u> | <u>6.34E-04</u> | 1.85E-01 | 4.83E-01 | <u>9.52E-04</u> | 3.71E-02 | <u>9.52E-04</u> | <u>3.17E-03</u> | <u>1.59E-03</u> | 1.89E-02 | 9.53              |
| 9-Sep-23   | 22.33 | <u>1.02E-03</u> | <u>6.77E-04</u> | <u>1.69E-03</u> | <u>6.77E-04</u> | 1.75E-01 | 1.69E-01 | <u>1.02E-03</u> | 5.28E-03 | <u>1.02E-03</u> | <u>3.38E-03</u> | <u>1.69E-03</u> | 7.58E-03 | 6.95              |
| 15-Sep-23  | 20.28 | <u>9.53E-04</u> | <u>6.36E-04</u> | <u>1.59E-03</u> | <u>6.36E-04</u> | 3.72E-01 | 2.33E-01 | <u>9.53E-04</u> | 9.03E-03 | <u>9.53E-04</u> | <u>3.18E-03</u> | <u>1.59E-03</u> | 8.26E-03 | 4.16              |
| 21-Sep-23  | 39.01 | <u>1.01E-03</u> | <u>6.76E-04</u> | <u>1.69E-03</u> | <u>6.76E-04</u> | 1.83E-01 | 2.95E-01 | <u>1.01E-03</u> | 1.22E-02 | <u>1.01E-03</u> | <u>3.38E-03</u> | <u>1.69E-03</u> | 1.25E-02 | 10.20             |
| 27-Sep-23  | 51.27 | <u>9.53E-04</u> | <u>6.35E-04</u> | 4.26E-03        | <u>6.35E-04</u> | 1.14E-01 | 1.01E+00 | <u>9.53E-04</u> | 3.41E-02 | 9.53E-04        | <u>3.18E-03</u> | <u>1.59E-03</u> | 2.03E-02 | 10.61             |
| <b>Arithmetic Mean</b>                           | 31.77 | 9.51E-04        | 6.34E-04        | 2.24E-03        | 6.34E-04        | 1.83E-01 | 4.17E-01 | 1.06E-03        | 1.58E-02 | 1.13E-03        | 3.17E-03        | 1.59E-03        | 1.25E-02 | 8.69              |
| <b>Geometric Mean</b>                            | 28.41 | 9.51E-04        | 6.34E-04        | 1.97E-03        | 6.34E-04        | 1.70E-01 | 2.71E-01 | 1.02E-03        | 1.03E-02 | 1.04E-03        | 3.17E-03        | 1.58E-03        | 1.09E-02 | 5.52              |
| <b>Max Sample</b>                                | 66.37 | 1.02E-03        | 6.77E-04        | 6.70E-03        | 6.77E-04        | 3.72E-01 | 1.41E+00 | 2.65E-03        | 3.92E-02 | 3.57E-03        | 3.38E-03        | 1.69E-03        | 2.46E-02 | 25.18             |
| <b>Min Sample</b>                                | 15.54 | 9.02E-04        | 6.01E-04        | 1.50E-03        | 6.01E-04        | 7.20E-02 | 5.33E-02 | 9.02E-04        | 2.43E-03 | 9.02E-04        | 3.01E-03        | 1.50E-03        | 4.82E-03 | 0.31              |
| <b>AAQC Limit</b>                                | 120   | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27                |
| <b>No. &gt; AAQC Limit</b>                       | 0     | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 1                 |
| <b>No. Valid Samples</b>                         | 15    | 15              | 15              | 15              | 15              | 15       | 15       | 15              | 15       | 15              | 15              | 15              | 15       | 13                |
| <b>MDL (µg)</b>                                  | 2,300 | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 15                |
| <b>No. &lt; MDL</b>                              | 0     | 15              | 15              | 12              | 15              | 0        | 0        | 14              | 0        | 13              | 15              | 15              | 0        | 1                 |
| <b>% of Valid Samples</b>                        | 100%  | 100%            | 100%            | 100%            | 100%            | 100%     | 100%     | 100%            | 100%     | 100%            | 100%            | 100%            | 100%     | 87%               |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

**APPENDIX A-2:**  
**TOTAL DUSTFALL SAMPLING RESULTS**

| <b>Tait Road Station Monitoring Results</b>             |                          |                           |                         |                       |                       |                          |
|---|--------------------------|---------------------------|-------------------------|-----------------------|-----------------------|--------------------------|
| (concentrations expressed in g/m <sup>2</sup> /30 days) |                          |                           |                         |                       |                       |                          |
| <b>Month</b>  | <b>No. Exposure Days</b> | <b>Insoluble Dustfall</b> | <b>Soluble Dustfall</b> | <b>Total Dustfall</b> | <b>Fixed Dustfall</b> | <b>Volatile Dustfall</b> |
| July  | 31                       | 2.01                      | 1.2                     | 3.24                  | 1.44                  | 1.80                     |
| August  | 31                       | 2.52                      | 2.55                    | 5.07                  | 1.89                  | 3.18                     |
| September   | 30                       | 2.76                      | 1.95                    | 4.74                  | 1.56                  | 3.15                     |
|   |                          | Arithmetic Mean           |                         | 4.35                  | 1.63                  | 2.71                     |
|   |                          | Max Monthly Concentration |                         | 5.07                  | 1.89                  | 3.18                     |
|   |                          | Min Monthly Concentration |                         | 3.24                  | 1.44                  | 1.8                      |
|   |                          | Dustfall AAQC             |                         | 7                     | -                     | -                        |
|   |                          | No. > AAQC                |                         | 0                     | -                     | -                        |
|   |                          | MDL                       |                         | 0.3                   | 0.3                   | 0.3                      |
|   |                          | No. < MDL                 |                         | 0                     | 0                     | 0                        |
|   |                          | No. Valid Samples         |                         | 3                     | 3                     | 3                        |
|   |                          | % Valid Samples           |                         | 100%                  | 100%                  | 100%                     |

| <b>Gallinger Road Station Monitoring Results</b>        |                          |                           |                         |                       |                       |                          |
|---|--------------------------|---------------------------|-------------------------|-----------------------|-----------------------|--------------------------|
| (concentrations expressed in g/m <sup>2</sup> /30 days) |                          |                           |                         |                       |                       |                          |
| <b>Month</b>  | <b>No. Exposure Days</b> | <b>Insoluble Dustfall</b> | <b>Soluble Dustfall</b> | <b>Total Dustfall</b> | <b>Fixed Dustfall</b> | <b>Volatile Dustfall</b> |
| July  | 31                       | 9.24                      | 4.5                     | 13.74                 | 3.63                  | 10.14                    |
| August  | 31                       | 1.44                      | 1.08                    | 2.52                  | 0.81                  | 1.71                     |
| September   | 30                       | 1.56                      | 1.59                    | 3.15                  | 0.84                  | 2.31                     |
|   |                          | Arithmetic Mean           |                         | 6.47                  | 1.76                  | 4.72                     |
|   |                          | Max Monthly Concentration |                         | 13.74                 | 3.63                  | 10.14                    |
|   |                          | Min Monthly Concentration |                         | 2.52                  | 0.81                  | 1.71                     |
|   |                          | Dustfall AAQC             |                         | 7                     | -                     | -                        |
|   |                          | No. > AAQC                |                         | 1                     | -                     | -                        |
|   |                          | MDL                       |                         | 0.3                   | 0.3                   | 0.3                      |
|   |                          | No. < MDL                 |                         | 0                     | 0                     | 0                        |
|   |                          | No. Valid Samples         |                         | 3                     | 3                     | 3                        |
|   |                          | % Valid Samples           |                         | 100%                  | 100%                  | 100%                     |

| <b>Northwest Station Monitoring Results</b>             |                          |                           |                         |                       |                       |                          |
|---|--------------------------|---------------------------|-------------------------|-----------------------|-----------------------|--------------------------|
| (concentrations expressed in g/m <sup>2</sup> /30 days) |                          |                           |                         |                       |                       |                          |
| <b>Month</b>  | <b>No. Exposure Days</b> | <b>Insoluble Dustfall</b> | <b>Soluble Dustfall</b> | <b>Total Dustfall</b> | <b>Fixed Dustfall</b> | <b>Volatile Dustfall</b> |
| July  | 31                       | 3.27                      | 5.73                    | 9                     | 1.65                  | 7.32                     |
| August  | 31                       | 0.57                      | 0.165                   | 0.345                 | <u>0.345</u>          | <u>0.15</u>              |
| September   | 30                       | 0.84                      | <u>0.165</u>            | <u>0.84</u>           | 0.33                  | 0.39                     |
|   |                          | Arithmetic Mean           |                         | 3.395                 | 0.775                 | 2.62                     |
|   |                          | Max Monthly Concentration |                         | 9                     | 1.65                  | 7.32                     |
|   |                          | Min Monthly Concentration |                         | 0.345                 | 0.33                  | 0.15                     |
|   |                          | Dustfall AAQC             |                         | 7                     | -                     | -                        |
|   |                          | No. > AAQC                |                         | 1                     | -                     | -                        |
|   |                          | MDL                       |                         | 0.3                   | 0.3                   | 0.3                      |
|   |                          | No. < MDL                 |                         | 1                     | 1                     | 1                        |
|   |                          | No. Valid Samples         |                         | 3                     | 3                     | 3                        |
|   |                          | % Valid Samples           |                         | 100%                  | 100%                  | 100%                     |

## APPENDIX A-3: SO<sub>2</sub> AND NO<sub>2</sub> PASSIVE SAMPLING RESULTS



| <b>Tait Road Station Monitoring Results</b>             |                       |                       |
|---|-----------------------|-----------------------|
| (concentrations expressed in $\mu\text{g}/\text{m}^3$ ) |                       |                       |
| <b>Month</b>  | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| July  | <u>0.13</u>           | 0.75                  |
| August  | 0.26                  | 0.94                  |
| September   | <u>0.13</u>           | 1.32                  |
| Arithmetic Mean   | 0.17                  | 1.00                  |
| Max Monthly Concentration                               | 0.26                  | 1.32                  |
| Min Monthly Concentration                               | 0.13                  | 0.75                  |
| Comparison Limit  | 30                    | 78                    |
| No. > Limit   | 0                     | 0                     |
| MDL   | 0.26                  | 0.19                  |
| No. < MDL   | 2                     | 0                     |
| No. Valid Samples                                       | 3                     | 3                     |
| % Valid Samples   | 100%                  | 100%                  |

| <b>Gallinger Road Station Monitoring Results</b>        |                       |                       |
|---|-----------------------|-----------------------|
| (concentrations expressed in $\mu\text{g}/\text{m}^3$ ) |                       |                       |
| <b>Month</b>  | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| July  | <u>0.13</u>           | 0.75                  |
| August  | 0.26                  | 0.38                  |
| September   | <u>0.13</u>           | 0.56                  |
| Arithmetic Mean   | 0.17                  | 0.56                  |
| Max Monthly Concentration                               | 0.26                  | 0.75                  |
| Min Monthly Concentration                               | 0.13                  | 0.38                  |
| Comparison Limit  | 30                    | 78                    |
| No. > Limit   | 0                     | 0                     |
| MDL   | 0.26                  | 0.19                  |
| No. < MDL   | 2                     | 0                     |
| No. Valid Samples                                       | 3                     | 3                     |
| % Valid Samples   | 100%                  | 100%                  |

# **APPENDIX B:**

## **NOTICE OF EXCEEDANCES FOR Q3 2023**

# **APPENDIX C: LABORATORY RESULTS**

## SAMPLE RECEIPT NOTIFICATION (SRN)

|                       |  |              |  |
|-----------------------|--|--------------|--|
| <b>Work Order</b>     | <b>: BU2300042</b>                         |              |  |
| Client                | : <b>New Gold Inc. (Rainy River)</b>       | Laboratory   | : ALS Environmental - Burlington                                   |
| Contact               | : Robyn Lloyd                              | Contact      | : Claire Kocharakkal   |
| Address               | : 24 Marr Rd<br>Barwick, ON Canada P0W 1A0 | Address      | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| E-mail                | : robyn.lloyd@newgold.com                  | E-mail       | : claire.kocharakkal@alsglobal.com                                 |
| Telephone             | : 807 234 8200                             | Telephone    | : +1 905 331 3111  |
| Facsimile             | : ----                                     | Facsimile    | : +1 905 331 4567  |
| Project               | : Air Quality                              | Page         | : 1 of 5   |
| Purchase order number | : 4700001830                               | Quote number | : BU2023NGRR1000001 (Air Quality Standing Offer)                   |
| C-O-C number          | : ----                                     | QC Level     | : ALS Canada Standard Quality Control                              |
| Site                  | :  |              |  |
| Sampler               | : Client                                   |              |  |

### Dates

|                           |                     |                          |               |
|---------------------------|---------------------|--------------------------|---------------|
| Date Samples Received     | : 10-Aug-2023 11:40 | Issue Date               | : 14-Aug-2023 |
| Client Requested Due Date | : 31-Aug-2023       | Scheduled Reporting Date | : 31-Aug-2023 |

### Delivery Details

|                      |           |                                    |                 |
|----------------------|-----------|------------------------------------|-----------------|
| Mode of Delivery     | : Carrier | Security Seal                      | : Not Available |
| No. of coolers/boxes | : 2       | Temperature                        | : 22.4          |
| Receipt Detail       | :         | No. of samples received / analyzed | : 7 / 7         |

### General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances (if any)
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- *Where possible, ALS will store samples for the following durations, measured from date of sample submission: 30 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.*
- **Temperature is recorded in °C unless otherwise noted.**



### Sample Container(s)/Preservation Non-Compliances (if any)

All comparisons are made against pretreatment/preservation practices published by CCME, BC ENV, Ontario MOE, Environment Canada, Health Canada, US EPA, APHA Standard Methods, ASTM, or ISO, and comply with provincial requirements for the laboratory location.

- No sample container/preservation non-compliance exists.

### Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Matrix: Air

Laboratory sample ID    Client sampling date / time    Client sample ID

| Laboratory sample ID | Client sampling date / time | Client sample ID    | Air - S447<br>Total Metals & Mercury in Dustfall (mg/dm2.day) | Air - S882.A<br>Soluble and Insoluble (Total, Fixed, Volatile) |
|----------------------|-----------------------------|---------------------|---|--|
| BU2300042-001        | 30-Jul-2023 00:00           | Dustfall-North      | ✓   | ✓  |
| BU2300042-002        | 30-Jul-2023 00:00           | Dustfall-South      | ✓   | ✓  |
| BU2300042-003        | 30-Jul-2023 00:00           | Dustfall-Northwest  | ✓   | ✓  |
| BU2300042-004        | 30-Jul-2023 00:00           | Dustfall-Caul       | ✓   | ✓  |
| BU2300042-005        | 30-Jul-2023 00:00           | Dustfall-Teeple     | ✓   | ✓  |
| BU2300042-006        | 30-Jul-2023 00:00           | Dustfall-Bourassa   | ✓   | ✓  |
| BU2300042-007        | 30-Jul-2023 00:00           | Dustfall-Trip Blank | ✓   | ✓  |

### Proactive Holding Time Report

All sample(s) for this submission were received within the recommended holding times for the requested tests.

Issue Date : 14-Aug-2023  
Page : 3 of 5  
Work Order : BU2300042 Amendment 0  
Client : New Gold Inc. (Rainy River)



## Requested Deliverables

### Claire Kocharakkal

|   |       |                                  |
|---|-------|----------------------------------|
| ALS Excel Report (ALS_MTABXL_CAN)                                 | Email | claire.kocharakkal@alsglobal.com |
| Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))         | Email | claire.kocharakkal@alsglobal.com |
| Interpretive Quality Control Report (QCI (CAN))                   | Email | claire.kocharakkal@alsglobal.com |
| Quality Control (QC (CAN))  | Email | claire.kocharakkal@alsglobal.com |
| Sample Receipt Notification (standard format) (SRN - Short (CAN)) | Email | claire.kocharakkal@alsglobal.com |
| Tax Invoice (INVOICE (CAN))                                       | Email | claire.kocharakkal@alsglobal.com |

### Garnet Cornell

|   |       |                            |
|---|-------|----------------------------|
| ALS Excel Report (ALS_MTABXL_CAN)                                 | Email | Garnet.Cornell@newgold.com |
| Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))         | Email | Garnet.Cornell@newgold.com |
| Interpretive Quality Control Report (QCI (CAN))                   | Email | Garnet.Cornell@newgold.com |
| Quality Control (QC (CAN))  | Email | Garnet.Cornell@newgold.com |
| Sample Receipt Notification (standard format) (SRN - Short (CAN)) | Email | Garnet.Cornell@newgold.com |
| Tax Invoice (INVOICE (CAN))                                       | Email | Garnet.Cornell@newgold.com |

### Garnet Cornell (Accounts Payable)

|                             |       |                                 |
|-----------------------------|-------|---------------------------------|
| Tax Invoice (INVOICE (CAN)) | Email | rainyriver.accounts@newgold.com |
|-----------------------------|-------|---------------------------------|

### Lab Results

|   |       |                                   |
|---|-------|-----------------------------------|
| ALS Excel Report (ALS_MTABXL_CAN)                                 | Email | rainyriver.labresults@newgold.com |
| Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))         | Email | rainyriver.labresults@newgold.com |
| Interpretive Quality Control Report (QCI (CAN))                   | Email | rainyriver.labresults@newgold.com |
| Quality Control (QC (CAN))  | Email | rainyriver.labresults@newgold.com |
| Sample Receipt Notification (standard format) (SRN - Short (CAN)) | Email | rainyriver.labresults@newgold.com |
| Tax Invoice (INVOICE (CAN))                                       | Email | rainyriver.labresults@newgold.com |

### Robyn Lloyd

|  |       |                         |
|--|-------|-------------------------|
| ALS Excel Report (ALS_MTABXL_CAN)                                      | Email | robyn.lloyd@newgold.com |
| Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))              | Email | robyn.lloyd@newgold.com |
| Interpretive Quality Control Report (QCI (CAN))                        | Email | robyn.lloyd@newgold.com |
| New Gold Inc. Rainy River Project EQUiS format.<br>(NEWGOLD_EQUIS_CAN) | Email | robyn.lloyd@newgold.com |
| Quality Control (QC (CAN))   | Email | robyn.lloyd@newgold.com |
| Sample Receipt Notification (standard format) (SRN - Short (CAN))      | Email | robyn.lloyd@newgold.com |
| Tax Invoice (INVOICE (CAN))  | Email | robyn.lloyd@newgold.com |

### Shubham Shringi



Issue Date : 14-Aug-2023  
 Page : 4 of 5  
 Work Order : BU2300042 Amendment 0  
 Client : New Gold Inc. (Rainy River)

|   |       |  |
|---|-------|--|
| ALS Excel Report (ALS_MTABXL_CAN)                                 | Email | shubham.shringi@trinityconsultants.com |
| Certificate of Analysis (Crosstab) (COA - CrossTab (CAN))         | Email | shubham.shringi@trinityconsultants.com |
| Interpretive Quality Control Report (QCI (CAN))                   | Email | shubham.shringi@trinityconsultants.com |
| Quality Control (QC (CAN))  | Email | shubham.shringi@trinityconsultants.com |
| Sample Receipt Notification (standard format) (SRN - Short (CAN)) | Email | shubham.shringi@trinityconsultants.com |

**Methods with Laboratory**

**Sale item**

| Method   | Laboratory | Address                    | City       | Province         | Country |
|--|------------|----------------------------|------------|------------------|---------|
| <b>Soluble and Insoluble (Total, Fixed, Volatile) Dustfalls (mg/dm2.day)</b> |            |                            |            |                  |         |
| E881   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| E882   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| E884   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| E885   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC880T.A   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC881.A  | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC882.A  | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC883F.A   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC883V2.A  | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC884.A  | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC884V.A   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC885.A  | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC885V.A   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EF001A   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EF001B   | Burlington | 1435 Norjohn Court, Unit 1 | Burlington | Ontario          | Canada  |
| <b>Total Metals &amp; Mercury in Dustfall (mg/dm2.day)</b>                   |            |                            |            |                  |         |
| E447   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| E516   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC447  | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EC516  | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EF001A   | Vancouver  | 8081 Lougheed Highway      | Burnaby    | British Columbia | Canada  |
| EF001B   | Burlington | 1435 Norjohn Court, Unit 1 | Burlington | Ontario          | Canada  |



Issue Date : 14-Aug-2023  
Page : 5 of 5  
Work Order : BU2300042 Amendment 0  
Client : New Gold Inc. (Rainy River)

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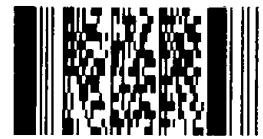
L2752163-COFC



Chain of Custody / Analytical Request Form  
1435 NorJohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

| Report To                                      |   | Report Format / Distribution      |                 |             | Service Requested  |        |                         |                         |                      |                      |
|--|---|-----------------------------------|-----------------|-------------|--|--------|-------------------------|-------------------------|----------------------|----------------------|
| Company: (New Gold Inc.                        |   |                                   |                 |             | Regular Service  |        |                         |                         |                      |                      |
| Contact: (Robyn Lloyd                          |   |                                   |                 |             | Rush Service (with prior consultation) - surcharge applies |        |                         |                         |                      |                      |
| Address: 11361 Roen Road, Chappite, ON P0W 1A0 |   | Email 1: (robyn.lloyd@newgold.com |                 |             | Other - Please contact ALS                                 |        |                         |                         |                      |                      |
| Phone: 1807-234-8200 ext. 8029 Fax             |   | Email 2:                          |                 |             | Analysis Request   |        |                         |                         |                      |                      |
| Invoice To: Same as Report                     |   | Client / Project Information      |                 |             | TSP and Metals   |        |                         |                         |                      |                      |
| Company:                                       |   | Job #:                            |                 |             | Pm 2.5   |        |                         |                         |                      |                      |
| Contact:                                       |   | Location:                         |                 |             | Dustfall Incl. volatile                                    |        |                         |                         |                      |                      |
| Address:                                       |   | PO: 14500059107                   |                 |             | Hazardous? Provide Data                                    |        |                         |                         |                      |                      |
| Phone:   |   | Sampled by:                       |                 |             | Highly Contaminated?                                       |        |                         |                         |                      |                      |
| Lab Work Order #                               |   | ALS Contact:                      |                 |             | Number of Containers                                       |        |                         |                         |                      |                      |
| Sample #                                       | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)                | Time<br>(hh:mm) | Sample Type | TSP  | Pm 2.5 | Dustfall Incl. volatile | Hazardous? Provide Data | Highly Contaminated? | Number of Containers |
|  | NORTH-TSP-493   | 5-Jul-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-493   | 5-Jul-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-493   | 5-Jul-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-494   | 11-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-494   | 11-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-494   | 11-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-495   | 17-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-495   | 17-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-495   | 17-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-496   | 23-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-496   | 23-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-496   | 23-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-497   | 29-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-497   | 29-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-497   | 29-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | TRIP BLANK - July TSP   | 30-Jul-2023                       | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-PM2.5-493   | 5-Jul-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-493   | 5-Jul-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-493   | 5-Jul-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-494   | 11-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-494   | 11-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-494   | 11-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-495   | 17-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-495   | 17-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-495   | 17-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-496   | 23-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-496   | 23-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-496   | 23-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-497   | 29-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-497   | 29-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-497   | 29-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | TRIP BLANK - JULY PM2.5   | 30-Jul-2023                       | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | Dustfall- Northwest   | 30-Jul-2023                       | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - Trip Blank   | 30-Jul-2023                       | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - North  | 30-Jul-2023                       | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - South  | 30-Jul-2023                       | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - Caul   | 30-Jul-2023                       | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - Teeple   | 30-Jul-2023                       | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - Bourassa   | 30-Jul-2023                       | 12:00           | Air         |  |        | X                       |                         |                      |                      |

Environmental Division  
Burlington  
Work Order Reference  
**BU2300042**



Telephone : +1 905 331 3111

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

| Released by: | Date (dd-mm-yy) | Time (hh:mm) | Received by:        | Date:              | Time:        | Temperature:      | Verified by: | Date: | Time: | Observations:               |
|--------------|-----------------|--------------|---------------------|--------------------|--------------|-------------------|--------------|-------|-------|-----------------------------|
|              |                 |              | <i>BARON BUSTAN</i> | <i>10-Aug 2023</i> | <i>11:40</i> | <i>22.4</i><br>°C |              |       |       | Yes (No?)<br>If Yes add SIF |



## CERTIFICATE OF ANALYSIS

|   |   |
|---|---|
| <p><b>Work Order</b> : <b>BU2300042</b></p> <p>Client : <b>New Gold Inc. (Rainy River)</b></p> <p>Contact : Robyn Lloyd</p> <p>Address : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p>Telephone : 807 234 8200</p> <p>Project : Air Quality</p> <p>PO : 4700001830</p> <p>C-O-C number : ----</p> <p>Sampler : Client</p> <p>Site :</p> <p>Quote number : Air Quality Standing Offer</p> <p>No. of samples received : 7</p> <p>No. of samples analysed : 7</p> | <p>Page : 1 of 8</p> <p>Laboratory : ALS Environmental - Burlington</p> <p>Account Manager : Claire Kocharakkal</p> <p>Address : 1435 Norjohn Court, Unit 1<br/>Burlington ON Canada L7L 0E6</p> <p>Telephone : +1 905 331 3111</p> <p>Date Samples Received : 10-Aug-2023 11:40</p> <p>Date Analysis Commenced : 14-Aug-2023</p> <p>Issue Date : 31-Aug-2023 11:12</p> |
|---|---|

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                         | <i>Laboratory Department</i>          |
|--------------------|---|---------------------------------------|
| Aaron Burton       | Login                                   | Administration, Burlington, Ontario   |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation | Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals             | Inorganics, Burnaby, British Columbia |
| Owen Cheng         |   | Metals, Burnaby, British Columbia     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| <i>Qualifier</i> | <i>Description</i>                              |
|------------------|---|
| DLA              | Detection Limit adjusted for required dilution. |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                              |            |                  |           |                         | Dustfall-North    | Dustfall-South    | Dustfall-Northw<br>est | Dustfall-Caul     | Dustfall-Teeple   |
|------------------------------|------------|------------------|-----------|-------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|
| Client sampling date / time  |            |                  |           |                         | 30-Jul-2023 00:00 | 30-Jul-2023 00:00 | 30-Jul-2023 00:00      | 30-Jul-2023 00:00 | 30-Jul-2023 00:00 |
| Analyte                      | CAS Number | Method/Lab       | LOR       | Unit                    | BU2300042-001     | BU2300042-002     | BU2300042-003          | BU2300042-004     | BU2300042-005     |
|                              |            |                  |           |                         | Result            | Result            | Result                 | Result            | Result            |
| <b>Field Tests</b>           |            |                  |           |                         |                   |                   |                        |                   |                   |
| Area sampled, field          | ---        | EF001A/VA        | 0.010     | cm <sup>2</sup>         | 55.4              | 55.4              | 55.4                   | 55.4              | 55.4              |
| Sampling time, field         | ---        | EF001B/BU        | 1         | days                    | 30                | 30                | 30                     | 29                | 29                |
| <b>Particulates</b>          |            |                  |           |                         |                   |                   |                        |                   |                   |
| Dustfall, fixed insoluble    | ---        | EC885.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.31              | 0.28              | 0.18                   | 0.12              | 0.16              |
| Dustfall, volatile insoluble | ---        | EC885V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 2.77              | 0.39              | 0.91                   | 0.10              | 1.53              |
| Dustfall, total insoluble    | ---        | EC882.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 3.08              | 0.67              | 1.09                   | 0.22              | 1.69              |
| Dustfall, fixed soluble      | ---        | EC884.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.90              | 0.20              | 0.37                   | <0.12             | 0.90              |
| Dustfall, volatile soluble   | ---        | EC884V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.60              | 0.20              | 1.53                   | <0.10             | 0.83              |
| Dustfall, total soluble      | ---        | EC881.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 1.50              | 0.40              | 1.91                   | <0.12             | 1.73              |
| Dustfall, fixed              | ---        | EC883F.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 1.21              | 0.48              | 0.55                   | <0.24             | 1.06              |
| Dustfall, volatile           | ---        | EC883V2.A/V<br>A | 0.10      | mg/dm <sup>2</sup> .day | 3.38              | 0.60              | 2.44                   | 0.10              | 2.36              |
| Dustfall, total              | ---        | EC880T.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 4.58              | 1.08              | 3.00                   | <0.24             | 3.42              |
| Dustfall, fixed insoluble    | ---        | E885/VA          | 1.9       | mg                      | 5.1               | 4.7               | 3.0                    | 1.9               | 2.6               |
| Dustfall, total insoluble    | ---        | E882/VA          | 1.9       | mg                      | 51.2              | 11.2              | 18.1                   | 3.6               | 27.2              |
| Dustfall, fixed soluble      | ---        | E884/VA          | 1.9       | mg                      | 15.0              | 3.3               | 6.2                    | <1.9              | 14.5              |
| Dustfall, total soluble      | ---        | E881/VA          | 1.9       | mg                      | 25.0              | 6.7               | 31.7                   | <1.9              | 27.8              |
| <b>Total Metals</b>          |            |                  |           |                         |                   |                   |                        |                   |                   |
| Aluminum, total              | 7429-90-5  | EC447/VA         | 0.000160  | mg/dm <sup>2</sup> .day | 0.00306           | 0.00413           | 0.00237                | 0.000853          | 0.00103           |
| Antimony, total              | 7440-36-0  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000042         | <0.0000030        | <0.0000030             | <0.0000031        | <0.0000031        |
| Arsenic, total               | 7440-38-2  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000043         | 0.0000035         | 0.0000030              | <0.0000031        | 0.0000050         |
| Barium, total                | 7440-39-3  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000752         | 0.0000590         | 0.0000632              | 0.0000073         | 0.000160          |
| Beryllium, total             | 7440-41-7  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000015         | <0.000015         | <0.000015              | <0.000016         | <0.000016         |
| Bismuth, total               | 7440-69-9  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000015         | <0.000015         | <0.000015              | <0.000016         | <0.000016         |
| Boron, total                 | 7440-42-8  | EC447/VA         | 0.00026   | mg/dm <sup>2</sup> .day | <0.00030          | <0.00030          | <0.00030               | <0.00031          | 0.00038           |
| Cadmium, total               | 7440-43-9  | EC447/VA         | 0.0000013 | mg/dm <sup>2</sup> .day | 0.0000050         | 0.0000019         | <0.0000013             | <0.0000013        | 0.0000045         |
| Calcium, total               | 7440-70-2  | EC447/VA         | 0.00052   | mg/dm <sup>2</sup> .day | 0.0346            | 0.0257            | 0.0262                 | 0.00162           | 0.0239            |
| Chromium, total              | 7440-47-3  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000015         | <0.000015         | <0.000015              | <0.000016         | <0.000016         |
| Cobalt, total                | 7440-48-4  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000049         | 0.0000034         | <0.0000030             | <0.0000031        | 0.0000281         |
| Copper, total                | 7440-50-8  | EC447/VA         | 0.000026  | mg/dm <sup>2</sup> .day | 0.000262          | 0.000096          | 0.000316               | <0.000031         | 0.000231          |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | Dustfall-North    | Dustfall-South    | Dustfall-Northw<br>est | Dustfall-Caul     | Dustfall-Teepie   |
|-----------------------------|------------|------------|------------|-------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|
| Client sampling date / time |            |            |            |                         | 30-Jul-2023 00:00 | 30-Jul-2023 00:00 | 30-Jul-2023 00:00      | 30-Jul-2023 00:00 | 30-Jul-2023 00:00 |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | BU2300042-001     | BU2300042-002     | BU2300042-003          | BU2300042-004     | BU2300042-005     |
|                             |            |            |            |                         | Result            | Result            | Result                 | Result            | Result            |
| <b>Total Metals</b>         |            |            |            |                         |                   |                   |                        |                   |                   |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079    | mg/dm <sup>2</sup> .day | 0.00535           | 0.00644           | 0.00379                | 0.00112           | 0.00174           |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | 0.0000088         | 0.0000091         | 0.0000043              | <0.0000016        | 0.0000037         |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | <0.00015          | <0.00015          | <0.00015               | <0.00016          | <0.00016          |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | 0.0286            | 0.0105            | 0.0101                 | 0.00078           | 0.0254            |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>2</sup> .day | 0.000836          | 0.000504          | 0.000280               | 0.000423          | 0.000859          |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000015        | <0.0000015        | <0.0000015             | <0.0000016        | <0.0000016        |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | 0.0000164         | 0.0000048         | 0.0000126              | <0.0000016        | 0.0000101         |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>2</sup> .day | 0.000095          | 0.000046          | <0.000015              | <0.000016         | 0.000039          |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.145             | 0.0250            | 0.0593                 | <0.0016           | 0.113             |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.178             | 0.0273            | 0.0806                 | <0.0016           | 0.267             |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000030         | <0.000030         | <0.000030              | <0.000031         | <0.000031         |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0070            | 0.0064            | 0.0069                 | 0.0016            | 0.0034            |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>2</sup> .day | 0.00000085        | 0.00000042        | <0.00000030            | <0.00000031       | <0.00000031       |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0052            | 0.0049            | 0.0052                 | <0.0016           | 0.0093            |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | 0.0000692         | 0.0000464         | 0.0000588              | 0.0000035         | 0.000141          |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000030        | <0.0000030        | <0.0000030             | <0.0000031        | <0.0000031        |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000030        | <0.0000030        | <0.0000030             | <0.0000031        | <0.0000031        |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>2</sup> .day | <0.00030          | <0.00030          | <0.00030               | <0.00031          | <0.00031          |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000026        | <0.0000026        | <0.0000026             | <0.0000026        | <0.0000026        |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000030         | <0.000030         | <0.000030              | <0.000031         | <0.000031         |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>2</sup> .day | 0.00196           | 0.000487          | 0.00101                | <0.000093         | 0.00103           |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | 0.0509            | 0.0686            | 0.0394                 | 0.0137            | 0.0165            |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | 0.000069          | <0.000050         | <0.000050              | <0.000050         | <0.000050         |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | 0.000072          | 0.000058          | 0.000050               | <0.000050         | 0.000081          |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | 0.00125           | 0.000981          | 0.00105                | 0.000118          | 0.00257           |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025          | <0.00025          | <0.00025               | <0.00025          | <0.00025          |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025          | <0.00025          | <0.00025               | <0.00025          | <0.00025          |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050           | <0.0050           | <0.0050                | <0.0050           | 0.0062            |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | 0.000084          | 0.000032          | <0.000020              | <0.000020         | 0.000072          |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010      | mg                      | 0.576             | 0.427             | 0.436                  | 0.026             | 0.384             |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025    | mg                      | <0.00025          | <0.00025          | <0.00025               | <0.00025          | <0.00025          |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | Dustfall-North    | Dustfall-South    | Dustfall-Northwest | Dustfall-Caul     | Dustfall-Teepie   |
|-----------------------------|------------|------------|-----------|------|-------------------|-------------------|--------------------|-------------------|-------------------|
| Client sampling date / time |            |            |           |      | 30-Jul-2023 00:00 | 30-Jul-2023 00:00 | 30-Jul-2023 00:00  | 30-Jul-2023 00:00 | 30-Jul-2023 00:00 |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2300042-001     | BU2300042-002     | BU2300042-003      | BU2300042-004     | BU2300042-005     |
|                             |            |            |           |      | Result            | Result            | Result             | Result            | Result            |
| <b>Total Metals</b>         |            |            |           |      |                   |                   |                    |                   |                   |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | 0.000081          | 0.000056          | <0.000050          | <0.000050         | 0.000452          |
| Copper, total               | 7440-50-8  | E447/VA    | 0.00050   | mg   | 0.00436           | 0.00160           | 0.00525            | <0.00050          | 0.00371           |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.089             | 0.107             | 0.063              | 0.018             | 0.028             |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | 0.000147          | 0.000152          | 0.000071           | <0.000025         | 0.000060          |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025           | <0.0025           | <0.0025            | <0.0025           | <0.0025           |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.475             | 0.174             | 0.168              | 0.0125            | 0.408             |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.0139            | 0.00837           | 0.00466            | 0.00068           | 0.0138            |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025         | <0.000025         | <0.000025          | <0.000025         | <0.000025         |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | 0.000272          | 0.000080          | 0.000210           | <0.000025         | 0.000162          |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | 0.00158           | 0.00076           | <0.00025           | <0.00025          | 0.00063           |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | 2.41              | 0.415             | 0.985              | <0.025            | 1.82              |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | 2.96              | 0.454             | 1.34               | <0.025            | 4.29              |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050          | <0.00050          | <0.00050           | <0.00050          | <0.00050          |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | 0.117             | 0.106             | 0.115              | 0.026             | 0.054             |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | 0.0000142         | 0.0000069         | <0.0000050         | <0.0000050        | <0.0000050        |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | 0.086             | 0.082             | 0.086              | <0.025            | 0.149             |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.00115           | 0.000771          | 0.000977           | 0.000057          | 0.00226           |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050         | <0.000050         | <0.000050          | <0.000050         | <0.000050         |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050         | <0.000050         | <0.000050          | <0.000050         | <0.000050         |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050           | <0.0050           | <0.0050            | <0.0050           | <0.0050           |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050        | <0.0000050        | <0.0000050         | <0.0000050        | <0.0000050        |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050          | <0.00050          | <0.00050           | <0.00050          | <0.00050          |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | 0.0326            | 0.0081            | 0.0168             | <0.0015           | 0.0165            |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                              |            |                  |           |                         | Dustfall-Bouras<br>sa       | Dustfall-Trip<br>Blank      | ----  | ----  | ----  |
|------------------------------|------------|------------------|-----------|-------------------------|-----------------------------|-----------------------------|-------|-------|-------|
|                              |            |                  |           |                         | 30-Jul-2023 00:00           | 30-Jul-2023 00:00           | ----  | ----  | ----  |
|                              |            |                  |           |                         | Client sampling date / time | Client sampling date / time | ----  | ----  | ----  |
| Analyte                      | CAS Number | Method/Lab       | LOR       | Unit                    | BU2300042-006               | BU2300042-007               | ----- | ----- | ----- |
|                              |            |                  |           |                         | Result                      | Result                      | ----  | ----  | ----  |
| <b>Field Tests</b>           |            |                  |           |                         |                             |                             |       |       |       |
| Area sampled, field          | ----       | EF001A/VA        | 0.010     | cm <sup>2</sup>         | 55.4                        | 55.4                        | ----  | ----  | ----  |
| Sampling time, field         | ----       | EF001B/BU        | 1         | days                    | 29                          | 30                          | ----  | ----  | ----  |
| <b>Particulates</b>          |            |                  |           |                         |                             |                             |       |       |       |
| Dustfall, fixed insoluble    | ----       | EC885.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.22                        | <0.11                       | ----  | ----  | ----  |
| Dustfall, volatile insoluble | ----       | EC885V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.10                        | <0.10                       | ----  | ----  | ----  |
| Dustfall, total insoluble    | ----       | EC882.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.32                        | <0.11                       | ----  | ----  | ----  |
| Dustfall, fixed soluble      | ----       | EC884.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | <0.12                       | <0.11                       | ----  | ----  | ----  |
| Dustfall, volatile soluble   | ----       | EC884V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.17                        | <0.10                       | ----  | ----  | ----  |
| Dustfall, total soluble      | ----       | EC881.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.17                        | <0.11                       | ----  | ----  | ----  |
| Dustfall, fixed              | ----       | EC883F.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | <0.24                       | <0.23                       | ----  | ----  | ----  |
| Dustfall, volatile           | ----       | EC883V2.A/V<br>A | 0.10      | mg/dm <sup>2</sup> .day | 0.27                        | <0.10                       | ----  | ----  | ----  |
| Dustfall, total              | ----       | EC880T.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.49                        | <0.23                       | ----  | ----  | ----  |
| Dustfall, fixed insoluble    | ----       | E885/VA          | 1.9       | mg                      | 3.5                         | <1.9                        | ----  | ----  | ----  |
| Dustfall, total insoluble    | ----       | E882/VA          | 1.9       | mg                      | 5.2                         | <1.9                        | ----  | ----  | ----  |
| Dustfall, fixed soluble      | ----       | E884/VA          | 1.9       | mg                      | <1.9                        | <1.9                        | ----  | ----  | ----  |
| Dustfall, total soluble      | ----       | E881/VA          | 1.9       | mg                      | 2.7                         | <1.9                        | ----  | ----  | ----  |
| <b>Total Metals</b>          |            |                  |           |                         |                             |                             |       |       |       |
| Aluminum, total              | 7429-90-5  | EC447/VA         | 0.000160  | mg/dm <sup>2</sup> .day | 0.000878                    | <0.000192                   | ----  | ----  | ----  |
| Antimony, total              | 7440-36-0  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000031                  | <0.0000032                  | ----  | ----  | ----  |
| Arsenic, total               | 7440-38-2  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000031                  | <0.0000032                  | ----  | ----  | ----  |
| Barium, total                | 7440-39-3  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000195                   | <0.0000032                  | ----  | ----  | ----  |
| Beryllium, total             | 7440-41-7  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000016                   | <0.000016                   | ----  | ----  | ----  |
| Bismuth, total               | 7440-69-9  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000016                   | <0.000016                   | ----  | ----  | ----  |
| Boron, total                 | 7440-42-8  | EC447/VA         | 0.00026   | mg/dm <sup>2</sup> .day | <0.00031                    | <0.00032                    | ----  | ----  | ----  |
| Cadmium, total               | 7440-43-9  | EC447/VA         | 0.0000013 | mg/dm <sup>2</sup> .day | <0.0000013                  | <0.0000013                  | ----  | ----  | ----  |
| Calcium, total               | 7440-70-2  | EC447/VA         | 0.00052   | mg/dm <sup>2</sup> .day | 0.00641                     | 0.00096                     | ----  | ----  | ----  |
| Chromium, total              | 7440-47-3  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000016                   | <0.000016                   | ----  | ----  | ----  |
| Cobalt, total                | 7440-48-4  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000031                  | <0.0000032                  | ----  | ----  | ----  |
| Copper, total                | 7440-50-8  | EC447/VA         | 0.000026  | mg/dm <sup>2</sup> .day | <0.000031                   | <0.000032                   | ----  | ----  | ----  |
| Iron, total                  | 7439-89-6  | EC447/VA         | 0.00079   | mg/dm <sup>2</sup> .day | 0.00124                     | <0.00096                    | ----  | ----  | ----  |





## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | Dustfall-Bouras<br>sa | Dustfall-Trip<br>Blank | ----  | ----  | ----  |
|-----------------------------|------------|------------|------------|-------------------------|-----------------------|------------------------|-------|-------|-------|
|                             |            |            |            |                         | 30-Jul-2023 00:00     | 30-Jul-2023 00:00      | ----  | ----  | ----  |
| Client sampling date / time |            |            |            |                         | BU2300042-006         | BU2300042-007          | ----- | ----- | ----- |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | Result                | Result                 | ----  | ----  | ----  |
| <b>Total Metals</b>         |            |            |            |                         |                       |                        |       |       |       |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.000013   | mg/dm <sup>2</sup> .day | <0.0000016            | <0.0000016             | ----  | ----  | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | <0.00016              | <0.00016               | ----  | ----  | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | 0.00183               | <0.00016               | ----  | ----  | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>2</sup> .day | 0.000109              | <0.0000066             | ----  | ----  | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000016            | <0.0000016             | ----  | ----  | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000016            | <0.0000016             | ----  | ----  | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>2</sup> .day | <0.000016             | <0.000016              | ----  | ----  | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0016               | <0.0016                | ----  | ----  | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0017                | <0.0016                | ----  | ----  | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000031             | <0.000032              | ----  | ----  | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0016               | <0.0016                | ----  | ----  | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>2</sup> .day | <0.00000031           | <0.00000032            | ----  | ----  | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0016               | <0.0016                | ----  | ----  | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | 0.0000134             | <0.0000032             | ----  | ----  | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000031            | <0.0000032             | ----  | ----  | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000031            | <0.0000032             | ----  | ----  | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>2</sup> .day | <0.00031              | <0.00032               | ----  | ----  | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000026            | <0.0000026             | ----  | ----  | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000031             | <0.000032              | ----  | ----  | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>2</sup> .day | <0.000093             | <0.000096              | ----  | ----  | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | 0.0141                | <0.0032                | ----  | ----  | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | <0.000050             | <0.000053              | ----  | ----  | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | <0.000050             | <0.000053              | ----  | ----  | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | 0.000314              | <0.000053              | ----  | ----  | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025              | <0.00026               | ----  | ----  | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025              | <0.00026               | ----  | ----  | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050               | <0.0053                | ----  | ----  | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | <0.000020             | <0.000021              | ----  | ----  | ----  |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010      | mg                      | 0.103                 | 0.016                  | ----  | ----  | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025    | mg                      | <0.00025              | <0.00026               | ----  | ----  | ----  |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050   | mg                      | <0.000050             | <0.000053              | ----  | ----  | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                     |            |            |           |      | Dustfall-Bouras<br>sa       | Dustfall-Trip<br>Blank   | ----  | ----  | ----  |
|---------------------|------------|------------|-----------|------|-----------------------------|--------------------------|-------|-------|-------|
|                     |            |            |           |      | 30-Jul-2023 00:00           | 30-Jul-2023 00:00        | ----  | ----  | ----  |
|                     |            |            |           |      | BU2300042-006               | BU2300042-007            | ----- | ----- | ----- |
|                     |            |            |           |      | Result                      | Result                   | ----  | ----  | ----  |
| Analyte             | CAS Number | Method/Lab | LOR       | Unit | Client sampling date / time |                          |       |       |       |
| <b>Total Metals</b> |            |            |           |      |                             |                          |       |       |       |
| Copper, total       | 7440-50-8  | E447/VA    | 0.00050   | mg   | <0.00050                    | <0.00053                 | ----  | ----  | ----  |
| Iron, total         | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.020                       | <0.016                   | ----  | ----  | ----  |
| Lead, total         | 7439-92-1  | E447/VA    | 0.000025  | mg   | <0.000025                   | <0.000026                | ----  | ----  | ----  |
| Lithium, total      | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025                     | <0.0026                  | ----  | ----  | ----  |
| Magnesium, total    | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.0294                      | <0.0026                  | ----  | ----  | ----  |
| Manganese, total    | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.00175                     | <0.00011                 | ----  | ----  | ----  |
| Mercury, total      | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025                   | <0.000026 <sup>DLA</sup> | ----  | ----  | ----  |
| Molybdenum, total   | 7439-98-7  | E447/VA    | 0.000025  | mg   | <0.000025                   | <0.000026                | ----  | ----  | ----  |
| Nickel, total       | 7440-02-0  | E447/VA    | 0.00025   | mg   | <0.00025                    | <0.00026                 | ----  | ----  | ----  |
| Phosphorus, total   | 7723-14-0  | E447/VA    | 0.025     | mg   | <0.025                      | <0.026                   | ----  | ----  | ----  |
| Potassium, total    | 7440-09-7  | E447/VA    | 0.025     | mg   | 0.028                       | <0.026                   | ----  | ----  | ----  |
| Selenium, total     | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050                    | <0.00053                 | ----  | ----  | ----  |
| Silicon, total      | 7440-21-3  | E447/VA    | 0.025     | mg   | <0.025                      | <0.026                   | ----  | ----  | ----  |
| Silver, total       | 7440-22-4  | E447/VA    | 0.0000050 | mg   | <0.0000050                  | <0.0000053               | ----  | ----  | ----  |
| Sodium, total       | 7440-23-5  | E447/VA    | 0.025     | mg   | <0.025                      | <0.026                   | ----  | ----  | ----  |
| Strontium, total    | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.000216                    | <0.000053                | ----  | ----  | ----  |
| Thallium, total     | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050                   | <0.000053                | ----  | ----  | ----  |
| Tin, total          | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050                   | <0.000053                | ----  | ----  | ----  |
| Titanium, total     | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050                     | <0.0053                  | ----  | ----  | ----  |
| Uranium, total      | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050                  | <0.0000053               | ----  | ----  | ----  |
| Vanadium, total     | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050                    | <0.00053                 | ----  | ----  | ----  |
| Zinc, total         | 7440-66-6  | E447/VA    | 0.0015    | mg   | <0.0015                     | <0.0016                  | ----  | ----  | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.




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## QUALITY CONTROL INTERPRETIVE REPORT

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|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2300042</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4700001830</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 7</p> <p><b>No. of samples analysed</b> : 7</p> | <p><b>Page</b> : 1 of 14</p> <p><b>Laboratory</b> : ALS Environmental - Burlington</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 10-Aug-2023 11:40</p> <p><b>Issue Date</b> : 31-Aug-2023 11:10</p> |
|---|--|

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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

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### ***Workorder Comments***

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### ***Summary of Outliers***

#### ***Outliers : Quality Control Samples***

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### ***Outliers: Reference Material (RM) Samples***

- No Reference Material (RM) Sample outliers occur.

***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



**Outliers : Quality Control Samples**

*Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes*

Matrix: Air

| Analyte Group               | Laboratory sample ID | Client/Ref Sample ID | Analyte       | CAS Number | Method | Result                        | Limits       | Comment  |
|-----------------------------|----------------------|----------------------|---------------|------------|--------|-------------------------------|--------------|--|
| <b>Duplicate (DUP) RPDs</b> |                      |                      |               |            |        |                               |              |  |
| Total Metals                | BU2300042-001        | Dustfall-North       | Nickel, total | 7440-02-0  | E447   | 0.00052 <sup>DUP-H</sup><br>% | Diff <2x LOR | Low Level DUP DQO exceeded (difference > 2 LOR). |

**Result Qualifiers**

| Qualifier | Description   |
|-----------|---|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)         | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa   | EF001A | 30-Jul-2023   | ----                     | ----          | ----   |      | 23-Aug-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul       | EF001A | 30-Jul-2023   | ----                     | ----          | ----   |      | 23-Aug-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North      | EF001A | 30-Jul-2023   | ----                     | ----          | ----   |      | 23-Aug-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest  | EF001A | 30-Jul-2023   | ----                     | ----          | ----   |      | 23-Aug-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South      | EF001A | 30-Jul-2023   | ----                     | ----          | ----   |      | 23-Aug-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Teeple     | EF001A | 30-Jul-2023   | ----                     | ----          | ----   |      | 23-Aug-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank | EF001A | 30-Jul-2023   | ----                     | ----          | ----   |      | 23-Aug-2023   | ----          | 25 days |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                  | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|---|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|   |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|   |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>              |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa            | EF001B | 30-Jul-2023   | ----                     | ----          | ----   |      | 14-Aug-2023   | ----          | 16 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>              |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul                | EF001B | 30-Jul-2023   | ----                     | ----          | ----   |      | 14-Aug-2023   | ----          | 16 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>              |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North               | EF001B | 30-Jul-2023   | ----                     | ----          | ----   |      | 14-Aug-2023   | ----          | 16 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>              |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest           | EF001B | 30-Jul-2023   | ----                     | ----          | ----   |      | 14-Aug-2023   | ----          | 16 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>              |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South               | EF001B | 30-Jul-2023   | ----                     | ----          | ----   |      | 14-Aug-2023   | ----          | 16 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>              |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Teeple              | EF001B | 30-Jul-2023   | ----                     | ----          | ----   |      | 14-Aug-2023   | ----          | 16 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>              |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank          | EF001B | 30-Jul-2023   | ----                     | ----          | ----   |      | 14-Aug-2023   | ----          | 16 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa            | E885   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul                | E885   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                  | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|---|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|   |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|   |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North               | E885   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest           | E885   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South               | E885   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Teeple              | E885   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank          | E885   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa            | E884   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul                | E884   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North               | E884   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest           | E884   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |





Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                   | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                | E884   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Teeple               | E884   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank           | E884   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa             | E882   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul                 | E882   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                | E882   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest            | E882   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                | E882   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Teeple               | E882   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----   |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                   | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank           | E882   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa             | E881   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul                 | E881   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                | E881   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest            | E881   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                | E881   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Teeple               | E881   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank           | E881   | 30-Jul-2023   | 21-Aug-2023              | ----          | ----    |      | 21-Aug-2023   | 0 days        | 23 days | ✔    |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>        |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa             | E516   | 30-Jul-2023   | 20-Aug-2023              | 180 days      | 22 days | ✔    | 21-Aug-2023   | 180 days      | 1 days  | ✔    |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)               | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul             | E516   | 30-Jul-2023   | 20-Aug-2023              | 180 days      | 22 days | ✔    | 21-Aug-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-North            | E516   | 30-Jul-2023   | 20-Aug-2023              | 180 days      | 22 days | ✔    | 21-Aug-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest        | E516   | 30-Jul-2023   | 20-Aug-2023              | 180 days      | 22 days | ✔    | 21-Aug-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-South            | E516   | 30-Jul-2023   | 20-Aug-2023              | 180 days      | 22 days | ✔    | 21-Aug-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Teeple           | E516   | 30-Jul-2023   | 20-Aug-2023              | 180 days      | 22 days | ✔    | 21-Aug-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank       | E516   | 30-Jul-2023   | 20-Aug-2023              | 180 days      | 22 days | ✔    | 21-Aug-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Bourassa         | E447   | 30-Jul-2023   | 22-Aug-2023              | 180 days      | 24 days | ✔    | 23-Aug-2023   | 180 days      | 24 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Caul             | E447   | 30-Jul-2023   | 22-Aug-2023              | 180 days      | 24 days | ✔    | 23-Aug-2023   | 180 days      | 24 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-North            | E447   | 30-Jul-2023   | 22-Aug-2023              | 180 days      | 24 days | ✔    | 23-Aug-2023   | 180 days      | 24 days | ✔    |  |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)               | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest        | E447   | 30-Jul-2023   | 22-Aug-2023              | 180 days      | 24 days | ✔    | 23-Aug-2023   | 180 days      | 24 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-South            | E447   | 30-Jul-2023   | 22-Aug-2023              | 180 days      | 24 days | ✔    | 23-Aug-2023   | 180 days      | 24 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Teepie           | E447   | 30-Jul-2023   | 22-Aug-2023              | 180 days      | 24 days | ✔    | 23-Aug-2023   | 180 days      | 24 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank       | E447   | 30-Jul-2023   | 22-Aug-2023              | 180 days      | 24 days | ✔    | 23-Aug-2023   | 180 days      | 24 days | ✔    |  |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1094211  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1094212  | 1     | 12      | 8.3           | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1095279  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1095280  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1095282  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1094211  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1094212  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1095281  | 1     | 7       | 14.2          | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1095279  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1095280  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1095282  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1094211  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1094212  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1095281  | 1     | 7       | 14.2          | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1094211  | 1     | 12      | 8.3           | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods                            | Method / Lab                              | Matrix | Method Reference            | Method Descriptions   |
|---|---|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)      | E447<br>ALS Environmental - Vancouver     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)         | E516<br>ALS Environmental - Vancouver     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)    | E881<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)  | E882<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)    | E884<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)   | E885<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm2.day)  | EC447<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm2.day by field information.   |
| Total Mercury by CVAAS (Dustfall, mg/dm2.day) | EC516<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm2.day based on field information.   |
| Total Dustfalls by Calculation (mg/dm2.day)   | EC880T.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |



| Analytical Methods  | Method / Lab                               | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                   |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                 |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>ALS Environmental - Vancouver    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>ALS Environmental - Burlington   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|



| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                    | <i>Matrix</i> | <i>Method Reference</i>     | <i>Method Descriptions</i>  |
|---|--|---------------|-----------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br>ALS Environmental - Vancouver | Air           | EPA 6020A                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br>ALS Environmental - Vancouver | Air           | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br>ALS Environmental - Vancouver | Air           | BC LAB MANUAL - PARTICULATE | Dustfall sample preparation.  |



## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2300042</b>                        | <b>Page</b>                    | : 1 of 8   |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : ALS Environmental - Burlington                                   |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 10-Aug-2023 11:40  |
| <b>PO</b>                      | : 4700001830                              | <b>Date Analysis Commenced</b> | : 14-Aug-2023  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 31-Aug-2023 11:10  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 7                                       |                                |  |
| <b>No. of samples analysed</b> | : 7                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                         | <i>Laboratory Department</i>                    |
|--------------------|---|---|
| Aaron Burton       | Login                                   | Burlington Administration, Burlington, Ontario  |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation | Vancouver Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals             | Vancouver Inorganics, Burnaby, British Columbia |
| Owen Cheng         |   | Vancouver Metals, Burnaby, British Columbia     |

Page : 2 of 8  
Work Order : BU2300042  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

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## Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air

|                                       |                  |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---------------------------------------|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                  | Client sample ID | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1094211)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300042-001                         | Dustfall-North   | Mercury, total    | 7439-97-6  | E516   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1094212)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300042-001                         | Dustfall-North   | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | 0.0509          | 0.0487           | 4.55%                | 40%              | ----      |
|                                       |                  | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | 0.000069        | 0.000075         | 0.000006             | Diff <2x LOR     | ----      |
|                                       |                  | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | 0.000072        | 0.000080         | 0.000008             | Diff <2x LOR     | ----      |
|                                       |                  | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | 0.00125         | 0.00132          | 5.47%                | 40%              | ----      |
|                                       |                  | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | 0.000084        | 0.000071         | 0.000012             | Diff <2x LOR     | ----      |
|                                       |                  | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | 0.576           | 0.581            | 0.846%               | 30%              | ----      |
|                                       |                  | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | 0.000081        | 0.000077         | 0.000004             | Diff <2x LOR     | ----      |
|                                       |                  | Copper, total     | 7440-50-8  | E447   | 0.000050                          | mg   | 0.00436         | 0.00394          | 10.3%                | 30%              | ----      |
|                                       |                  | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | 0.089           | 0.080            | 0.009                | Diff <2x LOR     | ----      |
|                                       |                  | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | 0.000147        | 0.000129         | 13.2%                | 40%              | ----      |
|                                       |                  | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | 0.475           | 0.481            | 1.23%                | 30%              | ----      |
|                                       |                  | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | 0.0139          | 0.0131           | 6.23%                | 30%              | ----      |
|                                       |                  | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg   | 0.000272        | 0.000248         | 9.13%                | 40%              | ----      |
|                                       |                  | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | 0.00158         | # 0.00106        | 0.00052              | Diff <2x LOR     | DUP-H     |
|                                       |                  | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | 2.41            | 2.44             | 1.24%                | 30%              | ----      |
|                                       |                  | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | 2.96            | 2.95             | 0.0378%              | 40%              | ----      |
|                                       |                  | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | 0.117           | 0.104            | 0.013                | Diff <2x LOR     | ----      |
|                                       |                  | Silver, total     | 7440-22-4  | E447   | 0.0000050                         | mg   | 0.0000142       | 0.0000084        | 0.0000059            | Diff <2x LOR     | ----      |
|                                       |                  | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | 0.086           | 0.088            | 0.001                | Diff <2x LOR     | ----      |
|                                       |                  | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | 0.00115         | 0.00118          | 2.30%                | 40%              | ----      |
|                                       |                  | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |



| Sub-Matrix: Air                                   |                  |                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---|------------------|-----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                              | Client sample ID | Analyte         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1094212) - continued</b> |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300042-001                                     | Dustfall-North   | Titanium, total | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|   |                  | Uranium, total  | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|   |                  | Vanadium, total | 7440-62-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Zinc, total     | 7440-66-6  | E447   | 0.0015                            | mg   | 0.0326          | 0.0286           | 12.8%                | 30%              | ----      |

**Qualifiers**

| Qualifier | Description   |
|-----------|---|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                              | CAS Number | Method | LOR      | Unit | Result    | Qualifier |
|--------------------------------------|------------|--------|----------|------|-----------|-----------|
| <b>Particulates (QCLot: 1095279)</b> |            |        |          |      |           |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 1095280)</b> |            |        |          |      |           |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 1095281)</b> |            |        |          |      |           |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 1095282)</b> |            |        |          |      |           |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | <1.9      | ---       |
| <b>Total Metals (QCLot: 1094211)</b> |            |        |          |      |           |           |
| Mercury, total                       | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025 | ---       |
| <b>Total Metals (QCLot: 1094212)</b> |            |        |          |      |           |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | <0.0030   | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | <0.0050   | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020 | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | <0.010    | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050  | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | <0.015    | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025 | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025   | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025   | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010  | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025 | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | <0.025    | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | <0.025    | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050  | ---       |



Sub-Matrix: Air

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1094212) - continued</b> |            |        |          |      |            |           |
| Silicon, total                                   | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ----      |
| Silver, total                                    | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |



## Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                      |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|                                      |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                              | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Particulates (QCLot: 1095279)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | 30 mg                                  | 110          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1095280)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | 119 mg                                 | 108          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1095281)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | 200 mg                                 | 102          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1095282)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | 30 mg                                  | 113          | 85.0                | 115  | ---       |
| <b>Total Metals (QCLot: 1094211)</b> |            |        |          |      |  |              |                     |      |           |
| Mercury, total                       | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 106          | 70.0                | 130  | ---       |
| <b>Total Metals (QCLot: 1094212)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 101          | 80.0                | 120  | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 109          | 80.0                | 120  | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 98.3         | 80.0                | 120  | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 92.2         | 80.0                | 120  | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 106          | 80.0                | 120  | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 98.0         | 80.0                | 120  | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 100          | 80.0                | 120  | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 95.8         | 80.0                | 120  | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 103          | 80.0                | 120  | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 96.8         | 80.0                | 120  | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 96.2         | 80.0                | 120  | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 95.6         | 80.0                | 120  | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 101          | 80.0                | 120  | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 107          | 80.0                | 120  | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 109          | 80.0                | 120  | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 98.0         | 80.0                | 120  | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 97.2         | 80.0                | 120  | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 100          | 80.0                | 120  | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 97.0         | 80.0                | 120  | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 93.7         | 80.0                | 120  | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 97.4         | 80.0                | 120  | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 101          | 80.0                | 120  | ---       |



| Sub-Matrix: Air                                  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Analyte  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High |           |
| <b>Total Metals (QCLot: 1094212) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Silicon, total                                   | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 101          | 80.0                | 120  | ----      |
| Silver, total                                    | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 93.6         | 80.0                | 120  | ----      |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 100          | 80.0                | 120  | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 96.8         | 80.0                | 120  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 95.4         | 80.0                | 120  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 97.0         | 80.0                | 120  | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 106          | 80.0                | 120  | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 97.3         | 80.0                | 120  | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 99.8         | 80.0                | 120  | ----      |

### Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Sub-Matrix: Air                      |                  |                |            |        | Matrix Spike (MS) Report |              |                     |      |           |      |
|--------------------------------------|------------------|----------------|------------|--------|--------------------------|--------------|---------------------|------|-----------|------|
|                                      |                  |                |            |        | Spike                    | Recovery (%) | Recovery Limits (%) |      | Qualifier |      |
| Laboratory sample ID                 | Client sample ID | Analyte        | CAS Number | Method | Concentration            | Target       | MS                  | Low  |           | High |
| <b>Total Metals (QCLot: 1094211)</b> |                  |                |            |        |                          |              |                     |      |           |      |
| BU2300042-002                        | Dustfall-South   | Mercury, total | 7439-97-6  | E516   | 0.000484 mg              | 0.0005 mg    | 96.9                | 70.0 | 130       | ---- |





L2752163-COFC



Chain of Custody / Analytical Request Form  
1435 NorJohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

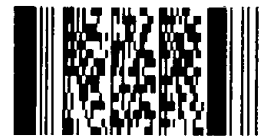
| Report To                                      |   | Report Format / Distribution      |                 |             | Service Requested  |                         |  |  |  |                         |                      |                      |
|--|---|-----------------------------------|-----------------|-------------|--|-------------------------|--|--|--|-------------------------|----------------------|----------------------|
| Company: (New Gold Inc.                        |   |                                   |                 |             | Regular Service  |                         |  |  |  |                         |                      |                      |
| Contact: (Robyn Lloyd                          |   |                                   |                 |             | Rush Service (with prior consultation) - surcharge applies |                         |  |  |  |                         |                      |                      |
| Address: 11361 Roen Road, Chappite, ON P0W 1A0 |   | Email 1: (robyn.lloyd@newgold.com |                 |             | Other - Please contact ALS                                 |                         |  |  |  |                         |                      |                      |
| Phone: 1807-234-8200 ext. 8029 Fax             |   | Email 2:                          |                 |             | Analysis Request   |                         |  |  |  |                         |                      |                      |
| Invoice To: Same as Report                     |   | Client / Project Information      |                 |             |  |                         |  |  |  |                         |                      |                      |
| Company:                                       |   | Job #:                            |                 |             |  |                         |  |  |  |                         |                      |                      |
| Contact:                                       |   | Location:                         |                 |             |  |                         |  |  |  |                         |                      |                      |
| Address:                                       |   | PO: 14500059107                   |                 |             |  |                         |  |  |  |                         |                      |                      |
| Phone: Fax                                     |   | Sampled by:                       |                 |             |  |                         |  |  |  |                         |                      |                      |
| Lab Work Order #                               |   | ALS Contact:                      |                 |             |  |                         |  |  |  |                         |                      |                      |
| Sample #                                       | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)                | Time<br>(hh:mm) | Sample Type | TSP and Metals<br>PM 2.5                                   | Dustfall Incl. volatile |  |  |  | Hazardous? Provide Data | Highly Contaminated? | Number of Containers |
|  | NORTH-TSP-493   | 5-Jul-2023                        | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | SOUTH-TSP-493   | 5-Jul-2023                        | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTHWEST-TSP-493   | 5-Jul-2023                        | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTH-TSP-494   | 11-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | SOUTH-TSP-494   | 11-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTHWEST-TSP-494   | 11-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTH-TSP-495   | 17-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | SOUTH-TSP-495   | 17-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTHWEST-TSP-495   | 17-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTH-TSP-496   | 23-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | SOUTH-TSP-496   | 23-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTHWEST-TSP-496   | 23-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTH-TSP-497   | 29-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | SOUTH-TSP-497   | 29-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTHWEST-TSP-497   | 29-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | TRIP BLANK - July TSP   | 30-Jul-2023                       | 12:00           | Air         | X  |                         |  |  |  |                         |                      |                      |
|  | NORTH-PM2.5-493   | 5-Jul-2023                        | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | SOUTH-PM2.5-493   | 5-Jul-2023                        | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTHWEST-PM2.5-493   | 5-Jul-2023                        | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTH-PM2.5-494   | 11-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | SOUTH-PM2.5-494   | 11-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTHWEST-PM2.5-494   | 11-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTH-PM2.5-495   | 17-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | SOUTH-PM2.5-495   | 17-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTHWEST-PM2.5-495   | 17-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTH-PM2.5-496   | 23-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | SOUTH-PM2.5-496   | 23-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTHWEST-PM2.5-496   | 23-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTH-PM2.5-497   | 29-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | SOUTH-PM2.5-497   | 29-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | NORTHWEST-PM2.5-497   | 29-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | TRIP BLANK - JULY PM2.5   | 30-Jul-2023                       | 12:00           | Air         | X  | X                       |  |  |  |                         |                      |                      |
|  | Dustfall- Northwest   | 30-Jul-2023                       | 12:00           | Air         |  | X                       |  |  |  |                         |                      |                      |
|  | Dustfall - Trip Blank   | 30-Jul-2023                       | 12:00           | Air         |  | X                       |  |  |  |                         |                      |                      |
|  | Dustfall - North  | 30-Jul-2023                       | 12:00           | Air         |  | X                       |  |  |  |                         |                      |                      |
|  | Dustfall - South  | 30-Jul-2023                       | 12:00           | Air         |  | X                       |  |  |  |                         |                      |                      |
|  | Dustfall - Caul   | 30-Jul-2023                       | 12:00           | Air         |  | X                       |  |  |  |                         |                      |                      |
|  | Dustfall - Teeple   | 30-Jul-2023                       | 12:00           | Air         |  | X                       |  |  |  |                         |                      |                      |
|  | Dustfall - Bourassa   | 30-Jul-2023                       | 12:00           | Air         |  | X                       |  |  |  |                         |                      |                      |

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

|              |                 |              |              |             |       |              |              |       |       |   |
|--------------|-----------------|--------------|--------------|-------------|-------|--------------|--------------|-------|-------|---|
| Released by: | Date (dd-mm-yy) | Time (hh:mm) | Received by: | Date:       | Time: | Temperature: | Verified by: | Date: | Time: | Observations:   |
|              |                 |              | BARON BUSTAN | 10-Aug 2023 | 11:40 | 22.4 °C      |              |       |       | Yes (No) <input checked="" type="checkbox"/> <input type="checkbox"/><br>If Yes add SIF |

Environmental Division  
Burlington  
Work Order Reference  
**BU2300042**



Telephone : +1 905 331 3111



## CERTIFICATE OF ANALYSIS

|   |   |
|---|---|
| <p><b>Work Order</b> : <b>BU2300048</b></p> <p>Client : <b>New Gold Inc. (Rainy River)</b></p> <p>Contact : Robyn Lloyd</p> <p>Address : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p>Telephone : 807 234 8200</p> <p>Project : Air Quality</p> <p>PO : 4700001830</p> <p>C-O-C number : ----</p> <p>Sampler : Client</p> <p>Site :</p> <p>Quote number : Air Quality Standing Offer</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p> | <p>Page : 1 of 5</p> <p>Laboratory : ALS Environmental - Burlington</p> <p>Account Manager : Claire Kocharakkal</p> <p>Address : 1435 Norjohn Court, Unit 1<br/>Burlington ON Canada L7L 0E6</p> <p>Telephone : +1 905 331 3111</p> <p>Date Samples Received : 07-Sep-2023 12:00</p> <p>Date Analysis Commenced : 08-Sep-2023</p> <p>Issue Date : 22-Sep-2023 04:01</p> |
|---|---|

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>             | <i>Laboratory Department</i>          |
|--------------------|-----------------------------|---------------------------------------|
| Aaron Burton       | Login                       | Administration, Burlington, Ontario   |
| Alex Thornton      | Analyst                     | Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals | Inorganics, Burnaby, British Columbia |
| Kim Jensen         | Department Manager - Metals | Metals, Burnaby, British Columbia     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| <i>Qualifier</i> | <i>Description</i>  |
|------------------|---|
| DLB              | Detection Limit Raised. Analyte detected at comparable level in Method Blank. |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                              |            |                  |           |                         | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|------------------------------|------------|------------------|-----------|-------------------------|----------------------|----------------------|------------------------|------------------------|-------|
| Client sampling date / time  |            |                  |           |                         | 29-Aug-2023<br>00:00 | 29-Aug-2023<br>00:00 | 29-Aug-2023<br>00:00   | 29-Aug-2023<br>00:00   | ----  |
| Analyte                      | CAS Number | Method/Lab       | LOR       | Unit                    | BU2300048-001        | BU2300048-002        | BU2300048-003          | BU2300048-004          | ----- |
|                              |            |                  |           |                         | Result               | Result               | Result                 | Result                 | ----  |
| <b>Field Tests</b>           |            |                  |           |                         |                      |                      |                        |                        |       |
| Area sampled, field          | ----       | EF001A/VA        | 0.010     | cm <sup>2</sup>         | 55.4                 | 55.4                 | 55.4                   | 55.4                   | ----  |
| Sampling time, field         | ----       | EF001B/BU        | 1         | days                    | 30                   | 30                   | 30                     | 30                     | ----  |
| <b>Particulates</b>          |            |                  |           |                         |                      |                      |                        |                        |       |
| Dustfall, fixed insoluble    | ----       | EC885.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | <0.11                | 0.31                 | 0.13                   | <0.11                  | ----  |
| Dustfall, volatile insoluble | ----       | EC885V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.48                 | 0.53                 | <0.10                  | <0.10                  | ----  |
| Dustfall, total insoluble    | ----       | EC882.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.48                 | 0.84                 | 0.19                   | <0.11                  | ----  |
| Dustfall, fixed soluble      | ----       | EC884.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.27                 | 0.32                 | <0.11                  | <0.11                  | ----  |
| Dustfall, volatile soluble   | ----       | EC884V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | 0.53                 | <0.10                  | <0.10                  | ----  |
| Dustfall, total soluble      | ----       | EC881.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.36                 | 0.85                 | <0.11                  | <0.11                  | ----  |
| Dustfall, fixed              | ----       | EC883F.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.27                 | 0.63                 | <0.23                  | <0.23                  | ----  |
| Dustfall, volatile           | ----       | EC883V2.A/V<br>A | 0.10      | mg/dm <sup>2</sup> .day | 0.57                 | 1.06                 | <0.10                  | <0.10                  | ----  |
| Dustfall, total              | ----       | EC880T.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.84                 | 1.69                 | <0.23                  | <0.23                  | ----  |
| Dustfall, fixed insoluble    | ----       | E885/VA          | 1.9       | mg                      | <1.9                 | 5.2                  | 2.2                    | <1.9                   | ----  |
| Dustfall, total insoluble    | ----       | E882/VA          | 1.9       | mg                      | 8.0                  | 14.0                 | 3.2                    | <1.9                   | ----  |
| Dustfall, fixed soluble      | ----       | E884/VA          | 1.9       | mg                      | 4.5                  | 5.3                  | <1.9                   | <1.9                   | ----  |
| Dustfall, total soluble      | ----       | E881/VA          | 1.9       | mg                      | 6.0                  | 14.1                 | <1.9                   | <1.9                   | ----  |
| <b>Total Metals</b>          |            |                  |           |                         |                      |                      |                        |                        |       |
| Aluminum, total              | 7429-90-5  | EC447/VA         | 0.000160  | mg/dm <sup>2</sup> .day | 0.00232              | 0.00521              | 0.00234                | 0.000301               | ----  |
| Antimony, total              | 7440-36-0  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000041            | <0.0000030           | <0.0000030             | <0.0000030             | ----  |
| Arsenic, total               | 7440-38-2  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000030           | 0.0000032            | <0.0000030             | <0.0000030             | ----  |
| Barium, total                | 7440-39-3  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000293            | 0.0000939            | 0.0000330              | <0.0000030             | ----  |
| Beryllium, total             | 7440-41-7  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000015            | <0.000015            | <0.000015              | <0.000015              | ----  |
| Bismuth, total               | 7440-69-9  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000015            | <0.000015            | <0.000015              | <0.000015              | ----  |
| Boron, total                 | 7440-42-8  | EC447/VA         | 0.00026   | mg/dm <sup>2</sup> .day | <0.00030             | <0.00030             | <0.00030               | <0.00030               | ----  |
| Cadmium, total               | 7440-43-9  | EC447/VA         | 0.0000013 | mg/dm <sup>2</sup> .day | <0.0000013           | 0.0000028            | <0.0000013             | <0.0000013             | ----  |
| Calcium, total               | 7440-70-2  | EC447/VA         | 0.00052   | mg/dm <sup>2</sup> .day | 0.0233               | 0.0546               | 0.0139                 | 0.00066                | ----  |
| Chromium, total              | 7440-47-3  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | 0.000023             | 0.000026             | 0.000020               | <0.000030              | ----  |
| Cobalt, total                | 7440-48-4  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000030           | 0.0000044            | <0.0000030             | <0.0000030             | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|-----------------------------|------------|------------|------------|-------------------------|----------------------|----------------------|------------------------|------------------------|-------|
| Client sampling date / time |            |            |            |                         | 29-Aug-2023<br>00:00 | 29-Aug-2023<br>00:00 | 29-Aug-2023<br>00:00   | 29-Aug-2023<br>00:00   | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | BU2300048-001        | BU2300048-002        | BU2300048-003          | BU2300048-004          | ----- |
|                             |            |            |            |                         | Result               | Result               | Result                 | Result                 | ----  |
| <b>Total Metals</b>         |            |            |            |                         |                      |                      |                        |                        |       |
| Copper, total               | 7440-50-8  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | 0.000052             | 0.000209             | <0.000030              | <0.000030              | ----  |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079    | mg/dm <sup>2</sup> .day | 0.00301              | 0.00746              | 0.00289                | <0.00090               | ----  |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | 0.0000043            | 0.0000120            | 0.0000035              | <0.0000015             | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | <0.00015             | <0.00015             | <0.00015               | <0.00015               | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | 0.0141               | 0.0117               | 0.00350                | <0.00015               | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>2</sup> .day | 0.000170             | 0.000533             | 0.000224               | 0.0000072              | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000015           | <0.0000015           | <0.0000015             | 0.0000258              | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | 0.0000038            | 0.0000052            | <0.0000015             | <0.0000015             | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>2</sup> .day | 0.000043             | 0.000034             | 0.000015               | <0.000045              | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0158               | 0.0369               | <0.0015                | <0.0015                | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0656               | 0.0478               | 0.0028                 | <0.0015                | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000030            | <0.000030            | <0.000030              | <0.000030              | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0044               | 0.0079               | 0.0034                 | <0.0015                | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>2</sup> .day | 0.00000073           | 0.00000107           | <0.00000030            | <0.00000030            | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0019               | 0.0042               | <0.0015                | <0.0015                | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | 0.0000435            | 0.000104             | 0.0000349              | <0.0000030             | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000030           | <0.0000030           | <0.0000030             | <0.0000030             | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000030           | <0.0000030           | <0.0000030             | <0.0000030             | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>2</sup> .day | <0.00030             | <0.00030             | <0.00030               | <0.00030               | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000026           | <0.0000026           | <0.0000026             | <0.0000026             | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000030            | <0.000030            | <0.000030              | <0.000030              | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>2</sup> .day | 0.000138             | 0.000602             | <0.000090              | <0.000090              | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | 0.0385               | 0.0866               | 0.0389                 | 0.0050                 | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | 0.000068             | <0.000050            | <0.000050              | <0.000050              | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | <0.000050            | 0.000054             | <0.000050              | <0.000050              | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | 0.000487             | 0.00156              | 0.000548               | <0.000050              | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025               | <0.00025               | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025               | <0.00025               | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050              | <0.0050              | <0.0050                | <0.0050                | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | <0.000020            | 0.000046             | <0.000020              | <0.000020              | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank  | ----  |
|-----------------------------|------------|------------|-----------|------|----------------------|----------------------|------------------------|-------------------------|-------|
| Client sampling date / time |            |            |           |      | 29-Aug-2023<br>00:00 | 29-Aug-2023<br>00:00 | 29-Aug-2023<br>00:00   | 29-Aug-2023<br>00:00    | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2300048-001        | BU2300048-002        | BU2300048-003          | BU2300048-004           | ----- |
|                             |            |            |           |      | Result               | Result               | Result                 | Result                  | ----  |
| <b>Total Metals</b>         |            |            |           |      |                      |                      |                        |                         |       |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010     | mg   | 0.388                | 0.908                | 0.231                  | 0.011                   | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025   | mg   | 0.00039              | 0.00043              | 0.00034                | <0.00050 <sup>DLB</sup> | ----  |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | <0.000050            | 0.000073             | <0.000050              | <0.000050               | ----  |
| Copper, total               | 7440-50-8  | E447/VA    | 0.00050   | mg   | 0.00086              | 0.00348              | <0.00050               | <0.00050                | ----  |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.050                | 0.124                | 0.048                  | <0.015                  | ----  |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | 0.000072             | 0.000200             | 0.000058               | <0.000025               | ----  |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025              | <0.0025              | <0.0025                | <0.0025                 | ----  |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.234                | 0.194                | 0.0582                 | <0.0025                 | ----  |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.00282              | 0.00886              | 0.00372                | 0.00012                 | ----  |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025            | <0.000025            | <0.000025              | 0.000429                | ----  |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | 0.000063             | 0.000086             | <0.000025              | <0.000025               | ----  |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | 0.00072              | 0.00056              | 0.00025                | <0.00075 <sup>DLB</sup> | ----  |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | 0.262                | 0.613                | <0.025                 | <0.025                  | ----  |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | 1.09                 | 0.795                | 0.047                  | <0.025                  | ----  |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050             | <0.00050             | <0.00050               | <0.00050                | ----  |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | 0.073                | 0.132                | 0.056                  | <0.025                  | ----  |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | 0.0000121            | 0.0000178            | <0.0000050             | <0.0000050              | ----  |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | 0.032                | 0.070                | <0.025                 | <0.025                  | ----  |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.000723             | 0.00173              | 0.000580               | <0.000050               | ----  |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000050            | <0.000050              | <0.000050               | ----  |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000050            | <0.000050              | <0.000050               | ----  |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050              | <0.0050              | <0.0050                | <0.0050                 | ----  |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050           | <0.0000050           | <0.0000050             | <0.0000050              | ----  |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050             | <0.00050             | <0.00050               | <0.00050                | ----  |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | 0.0023               | 0.0100               | <0.0015                | <0.0015                 | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



## QUALITY CONTROL INTERPRETIVE REPORT

|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2300048</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4700001830</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 11</p> <p><b>Laboratory</b> : ALS Environmental - Burlington</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 07-Sep-2023 12:00</p> <p><b>Issue Date</b> : 21-Sep-2023 15:38</p> |
|---|--|

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

### ***Workorder Comments***

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### ***Summary of Outliers***

#### ***Outliers : Quality Control Samples***

- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### ***Outliers: Reference Material (RM) Samples***

- No Reference Material (RM) Sample outliers occur.

***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.





**Outliers : Quality Control Samples**

*Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes*

Matrix: Air

| Analyte Group                   | Laboratory sample ID | Client/Ref Sample ID | Analyte         | CAS Number | Method | Result                          | Limits     | Comment                              |
|---------------------------------|----------------------|----------------------|-----------------|------------|--------|---------------------------------|------------|--------------------------------------|
| <b>Method Blank (MB) Values</b> |                      |                      |                 |            |        |                                 |            |                                      |
| Total Metals                    | QC-1134901-001       | ----                 | Chromium, total | 7440-47-3  | E447   | 0.00032 <sup>MB-LOR</sup><br>mg | 0.00025 mg | Blank result exceeds permitted value |
| Total Metals                    | QC-1134901-001       | ----                 | Nickel, total   | 7440-02-0  | E447   | 0.00042 <sup>MB-LOR</sup><br>mg | 0.00025 mg | Blank result exceeds permitted value |

**Result Qualifiers**

| Qualifier | Description   |
|-----------|---|
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)            | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|---|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|   |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|   |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North         | EF001A | 29-Aug-2023   | ----                     | ----          | ----   |      | 15-Sep-2023   | ----          | 18 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest     | EF001A | 29-Aug-2023   | ----                     | ----          | ----   |      | 15-Sep-2023   | ----          | 18 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South         | EF001A | 29-Aug-2023   | ----                     | ----          | ----   |      | 15-Sep-2023   | ----          | 18 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>           |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank | EF001A | 29-Aug-2023   | ----                     | ----          | ----   |      | 15-Sep-2023   | ----          | 18 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North         | EF001B | 29-Aug-2023   | ----                     | ----          | ----   |      | 08-Sep-2023   | ----          | 11 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest     | EF001B | 29-Aug-2023   | ----                     | ----          | ----   |      | 08-Sep-2023   | ----          | 11 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>        |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South         | EF001B | 29-Aug-2023   | ----                     | ----          | ----   |      | 08-Sep-2023   | ----          | 11 days |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                   | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>               |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank | EF001B | 29-Aug-2023   | ----                     | ----          | ----   |      | 08-Sep-2023   | ----          | 11 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-North         | E885   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Northwest     | E885   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-South         | E885   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>  |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank | E885   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-North         | E884   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Northwest     | E884   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-South         | E884   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank | E884   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----   |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)                   | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                | E882   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest            | E882   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                | E882   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b> |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank        | E882   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                | E881   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest            | E881   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                | E881   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank        | E881   | 29-Aug-2023   | 15-Sep-2023              | ----          | ----    |      | 15-Sep-2023   | 0 days        | 18 days | ✔    |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>        |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                | E516   | 29-Aug-2023   | 15-Sep-2023              | 180 days      | 17 days | ✔    | 17-Sep-2023   | 180 days      | 3 days  | ✔    |



Matrix: Air Evaluation: \* = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group<br>Container / Client Sample ID(s)               | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest        | E516   | 29-Aug-2023   | 15-Sep-2023              | 180 days      | 17 days | ✓    | 17-Sep-2023   | 180 days      | 3 days  | ✓    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-South            | E516   | 29-Aug-2023   | 15-Sep-2023              | 180 days      | 17 days | ✓    | 17-Sep-2023   | 180 days      | 3 days  | ✓    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>    |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank    | E516   | 29-Aug-2023   | 15-Sep-2023              | 180 days      | 17 days | ✓    | 17-Sep-2023   | 180 days      | 3 days  | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-North            | E447   | 29-Aug-2023   | 16-Sep-2023              | 180 days      | 19 days | ✓    | 20-Sep-2023   | 180 days      | 22 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest        | E447   | 29-Aug-2023   | 16-Sep-2023              | 180 days      | 19 days | ✓    | 20-Sep-2023   | 180 days      | 22 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-South            | E447   | 29-Aug-2023   | 16-Sep-2023              | 180 days      | 19 days | ✓    | 20-Sep-2023   | 180 days      | 22 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b> |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank    | E447   | 29-Aug-2023   | 16-Sep-2023              | 180 days      | 19 days | ✓    | 20-Sep-2023   | 180 days      | 22 days | ✓    |  |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1134900  | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1134897  | 2     | 9       | 22.2          | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1135886  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1135887  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1135889  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1134900  | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1134897  | 2     | 9       | 22.2          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1135888  | 1     | 4       | 25.0          | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1135886  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1135887  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1135889  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1134900  | 2     | 4       | 50.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1134897  | 2     | 9       | 22.2          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1135888  | 1     | 4       | 25.0          | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1134900  | 1     | 4       | 25.0          | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods   | Method / Lab                              | Matrix | Method Reference            | Method Descriptions   |
|--|---|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)                   | E447<br>ALS Environmental - Vancouver     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)                      | E516<br>ALS Environmental - Vancouver     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)                 | E881<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)               | E882<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)                 | E884<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)                | E885<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm <sup>2</sup> .day)  | EC447<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day by field information.  |
| Total Mercury by CVAAS (Dustfall, mg/dm <sup>2</sup> .day) | EC516<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day based on field information.  |
| Total Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC880T.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |



| Analytical Methods  | Method / Lab                               | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                   |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                 |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>ALS Environmental - Vancouver    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>ALS Environmental - Burlington   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|





| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                    | <i>Matrix</i> | <i>Method Reference</i>     | <i>Method Descriptions</i>  |
|---|--|---------------|-----------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br>ALS Environmental - Vancouver | Air           | EPA 6020A                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br>ALS Environmental - Vancouver | Air           | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br>ALS Environmental - Vancouver | Air           | BC LAB MANUAL - PARTICULATE | Dustfall sample preparation.  |

## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2300048</b>                        | <b>Page</b>                    | : 1 of 11  |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : ALS Environmental - Burlington                                   |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 07-Sep-2023 12:00  |
| <b>PO</b>                      | : 4700001830                              | <b>Date Analysis Commenced</b> | : 08-Sep-2023  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 21-Sep-2023 15:38  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 4                                       |                                |  |
| <b>No. of samples analysed</b> | : 4                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>             | <i>Laboratory Department</i>                    |
|--------------------|-----------------------------|---|
| Aaron Burton       | Login                       | Burlington Administration, Burlington, Ontario  |
| Alex Thornton      | Analyst                     | Vancouver Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals | Vancouver Inorganics, Burnaby, British Columbia |
| Kim Jensen         | Department Manager - Metals | Vancouver Metals, Burnaby, British Columbia     |

Page : 2 of 11  
Work Order : BU2300048  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality

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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

### Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## Workorder Comments

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air

|                                       |                  |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---------------------------------------|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                  | Client sample ID | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1134897)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300048-001                         | Dustfall-North   | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | 0.0385          | 0.0399           | 3.38%                | 40%              | ----      |
|                                       |                  | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | 0.000068        | 0.000054         | 0.000014             | Diff <2x LOR     | ----      |
|                                       |                  | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | <0.000050       | 0.000055         | 0.000005             | Diff <2x LOR     | ----      |
|                                       |                  | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | 0.000487        | 0.000454         | 6.94%                | 40%              | ----      |
|                                       |                  | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | 0.388           | 0.408            | 4.89%                | 30%              | ----      |
|                                       |                  | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | 0.00039         | 0.00041          | 0.00002              | Diff <2x LOR     | ----      |
|                                       |                  | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg   | 0.00086         | 0.00083          | 0.00003              | Diff <2x LOR     | ----      |
|                                       |                  | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | 0.050           | 0.046            | 0.004                | Diff <2x LOR     | ----      |
|                                       |                  | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | 0.000072        | 0.000082         | 0.000010             | Diff <2x LOR     | ----      |
|                                       |                  | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | 0.234           | 0.245            | 4.53%                | 30%              | ----      |
|                                       |                  | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | 0.00282         | 0.00266          | 5.60%                | 30%              | ----      |
|                                       |                  | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg   | 0.000063        | 0.000065         | 0.000002             | Diff <2x LOR     | ----      |
|                                       |                  | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | 0.00072         | 0.00074          | 0.00002              | Diff <2x LOR     | ----      |
|                                       |                  | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | 0.262           | 0.271            | 3.22%                | 30%              | ----      |
|                                       |                  | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | 1.09            | 1.15             | 5.08%                | 40%              | ----      |
|                                       |                  | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | 0.073           | 0.064            | 0.009                | Diff <2x LOR     | ----      |
|                                       |                  | Silver, total     | 7440-22-4  | E447   | 0.0000050                         | mg   | 0.0000121       | <0.0000050       | 0.0000071            | Diff <2x LOR     | ----      |
|                                       |                  | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | 0.032           | 0.033            | 0.0009               | Diff <2x LOR     | ----      |
|                                       |                  | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | 0.000723        | 0.000720         | 0.373%               | 40%              | ----      |
|                                       |                  | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Titanium, total   | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Uranium, total    | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |



| Sub-Matrix: Air                                   |                     |                   |            |        | Laboratory Duplicate (DUP) Report |            |                 |                  |                      |                  |           |
|---|---------------------|-------------------|------------|--------|-----------------------------------|------------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                              | Client sample ID    | Analyte           | CAS Number | Method | LOR                               | Unit       | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1134897) - continued</b> |                     |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300048-001                                     | Dustfall-North      | Vanadium, total   | 7440-62-2  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Zinc, total       | 7440-66-6  | E447   | 0.0015                            | mg         | 0.0023          | 0.0022           | 0.00008              | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1134899)</b>             |                     |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300048-001                                     | Dustfall-North      | Mercury, total    | 7439-97-6  | E516   | 0.000025                          | mg         | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1134900)</b>             |                     |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300048-004                                     | Dustfall-Trip Blank | Mercury, total    | 7439-97-6  | E516   | 0.000025                          | mg         | 0.000429        | 0.000433         | 0.830%               | 40%              | ----      |
| <b>Total Metals (QC Lot: 1134901)</b>             |                     |                   |            |        |                                   |            |                 |                  |                      |                  |           |
| BU2300048-004                                     | Dustfall-Trip Blank | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg         | 0.0050          | <0.0030          | 0.0020               | Diff <2x LOR     | ----      |
|   |                     | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg         | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg         | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg         | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg         | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg         | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|   |                     | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg         | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg         | 0.011           | <0.010           | 0.0009               | Diff <2x LOR     | ----      |
|   |                     | Chromium, total   | 7440-47-3  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg         | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg         | <0.015          | <0.015           | 0                    | Diff <2x LOR     | ----      |
|   |                     | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg         | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg         | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|   |                     | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg         | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|   |                     | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg         | 0.00012         | 0.00010          | 0.00002              | Diff <2x LOR     | ----      |
|   |                     | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg         | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Nickel, total     | 7440-02-0  | E447   | 0.00075                           | mg         | <0.00075        | <0.00075         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg         | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|   |                     | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg         | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|   |                     | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg         | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg         | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
| Silver, total                                     | 7440-22-4           | E447              | 0.0000050  | mg     | <0.0000050                        | <0.0000050 | 0               | Diff <2x LOR     | ----                 |                  |           |
| Sodium, total                                     | 7440-23-5           | E447              | 0.025      | mg     | <0.025                            | <0.025     | 0               | Diff <2x LOR     | ----                 |                  |           |
| Strontium, total                                  | 7440-24-6           | E447              | 0.000050   | mg     | <0.000050                         | <0.000050  | 0               | Diff <2x LOR     | ----                 |                  |           |
| Thallium, total                                   | 7440-28-0           | E447              | 0.000050   | mg     | <0.000050                         | <0.000050  | 0               | Diff <2x LOR     | ----                 |                  |           |



| Sub-Matrix: Air                                   |                     |                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---|---------------------|-----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                              | Client sample ID    | Analyte         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1134901) - continued</b> |                     |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300048-004                                     | Dustfall-Trip Blank | Tin, total      | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|   |                     | Titanium, total | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|   |                     | Uranium, total  | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|   |                     | Vanadium, total | 7440-62-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                     | Zinc, total     | 7440-66-6  | E447   | 0.0015                            | mg   | <0.0015         | <0.0015          | 0                    | Diff <2x LOR     | ----      |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                              | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--------------------------------------|------------|--------|----------|------|------------|-----------|
| <b>Particulates (QCLot: 1135886)</b> |            |        |          |      |            |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1135887)</b> |            |        |          |      |            |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1135888)</b> |            |        |          |      |            |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1135889)</b> |            |        |          |      |            |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | <1.9       | ---       |
| <b>Total Metals (QCLot: 1134897)</b> |            |        |          |      |            |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ---       |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ---       |



Sub-Matrix: Air

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1134897) - continued</b> |            |        |          |      |            |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 1134899)</b>             |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |
| <b>Total Metals (QCLot: 1134900)</b>             |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |
| <b>Total Metals (QCLot: 1134901)</b>             |            |        |          |      |            |           |
| Aluminum, total                                  | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ----      |
| Antimony, total                                  | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Arsenic, total                                   | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Barium, total                                    | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Beryllium, total                                 | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Bismuth, total                                   | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ----      |
| Boron, total                                     | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Cadmium, total                                   | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ----      |
| Calcium, total                                   | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ----      |
| Chromium, total                                  | 7440-47-3  | E447   | 0.00025  | mg   | # 0.00032  | MB-LOR    |
| Cobalt, total                                    | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Copper, total                                    | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Iron, total                                      | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ----      |
| Lead, total                                      | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ----      |
| Lithium, total                                   | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ----      |
| Magnesium, total                                 | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ----      |
| Manganese, total                                 | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ----      |
| Molybdenum, total                                | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ----      |
| Nickel, total                                    | 7440-02-0  | E447   | 0.00025  | mg   | # 0.00042  | MB-LOR    |
| Phosphorus, total                                | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ----      |
| Potassium, total                                 | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ----      |
| Selenium, total                                  | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |





Sub-Matrix: Air

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1134901) - continued</b> |            |        |          |      |            |           |
| Silicon, total                                   | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ----      |
| Silver, total                                    | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |

**Qualifiers**

| Qualifier | Description   |
|-----------|---|
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |



## Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                      |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|                                      |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                              | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Particulates (QCLot: 1135886)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble            | ----       | E885   | 1.9      | mg   | 30 mg                                  | 112          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1135887)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble              | ----       | E884   | 1.9      | mg   | 119 mg                                 | 113          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1135888)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble              | ----       | E881   | 1.9      | mg   | 200 mg                                 | 102          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1135889)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble            | ----       | E882   | 1.9      | mg   | 30 mg                                  | 114          | 85.0                | 115  | ----      |
| <b>Total Metals (QCLot: 1134897)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 106          | 80.0                | 120  | ----      |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 113          | 80.0                | 120  | ----      |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 105          | 80.0                | 120  | ----      |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 103          | 80.0                | 120  | ----      |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 102          | 80.0                | 120  | ----      |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 92.9         | 80.0                | 120  | ----      |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 102          | 80.0                | 120  | ----      |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 104          | 80.0                | 120  | ----      |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 101          | 80.0                | 120  | ----      |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 98.8         | 80.0                | 120  | ----      |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 99.8         | 80.0                | 120  | ----      |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 101          | 80.0                | 120  | ----      |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ----      |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 107          | 80.0                | 120  | ----      |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 103          | 80.0                | 120  | ----      |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ----      |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 105          | 80.0                | 120  | ----      |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 107          | 80.0                | 120  | ----      |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 103          | 80.0                | 120  | ----      |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 110          | 80.0                | 120  | ----      |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 95.5         | 80.0                | 120  | ----      |



Sub-Matrix: Air

|  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 1134897) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 103          | 80.0                | 120  | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 94.8         | 80.0                | 120  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 101          | 80.0                | 120  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 98.7         | 80.0                | 120  | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 101          | 80.0                | 120  | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 1134899)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 96.4         | 70.0                | 130  | ----      |
| <b>Total Metals (QCLot: 1134900)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 94.2         | 70.0                | 130  | ----      |
| <b>Total Metals (QCLot: 1134901)</b>             |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                                  | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 102          | 80.0                | 120  | ----      |
| Antimony, total                                  | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 111          | 80.0                | 120  | ----      |
| Arsenic, total                                   | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 98.3         | 80.0                | 120  | ----      |
| Barium, total                                    | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 101          | 80.0                | 120  | ----      |
| Beryllium, total                                 | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 101          | 80.0                | 120  | ----      |
| Bismuth, total                                   | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 96.8         | 80.0                | 120  | ----      |
| Boron, total                                     | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 95.0         | 80.0                | 120  | ----      |
| Cadmium, total                                   | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 101          | 80.0                | 120  | ----      |
| Calcium, total                                   | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 103          | 80.0                | 120  | ----      |
| Chromium, total                                  | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ----      |
| Cobalt, total                                    | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 97.5         | 80.0                | 120  | ----      |
| Copper, total                                    | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 97.0         | 80.0                | 120  | ----      |
| Iron, total                                      | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 98.5         | 80.0                | 120  | ----      |
| Lead, total                                      | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 100          | 80.0                | 120  | ----      |
| Lithium, total                                   | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 100          | 80.0                | 120  | ----      |
| Magnesium, total                                 | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 102          | 80.0                | 120  | ----      |
| Manganese, total                                 | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 100          | 80.0                | 120  | ----      |
| Molybdenum, total                                | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 103          | 80.0                | 120  | ----      |
| Nickel, total                                    | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 98.7         | 80.0                | 120  | ----      |
| Phosphorus, total                                | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 101          | 80.0                | 120  | ----      |
| Potassium, total                                 | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 104          | 80.0                | 120  | ----      |
| Selenium, total                                  | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 98.0         | 80.0                | 120  | ----      |
| Silicon, total                                   | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 103          | 80.0                | 120  | ----      |



| Sub-Matrix: Air                                  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Analyte  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High |           |
| <b>Total Metals (QCLot: 1134901) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Silver, total                                    | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 93.0         | 80.0                | 120  | ----      |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 96.4         | 80.0                | 120  | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 102          | 80.0                | 120  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 96.0         | 80.0                | 120  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 94.9         | 80.0                | 120  | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 98.0         | 80.0                | 120  | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 99.9         | 80.0                | 120  | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 99.6         | 80.0                | 120  | ----      |

### Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Sub-Matrix: Air                      |                  |                |            |        | Matrix Spike (MS) Report |              |                     |      |           |      |
|--------------------------------------|------------------|----------------|------------|--------|--------------------------|--------------|---------------------|------|-----------|------|
|                                      |                  |                |            |        | Spike                    | Recovery (%) | Recovery Limits (%) |      | Qualifier |      |
| Laboratory sample ID                 | Client sample ID | Analyte        | CAS Number | Method | Concentration            | Target       | MS                  | Low  |           | High |
| <b>Total Metals (QCLot: 1134899)</b> |                  |                |            |        |                          |              |                     |      |           |      |
| BU2300048-002                        | Dustfall-South   | Mercury, total | 7439-97-6  | E516   | 0.000409 mg              | 0.0005 mg    | 81.8                | 70.0 | 130       | ---- |



L2752568-COFC



Chain of Custody / Analytical Request Form  
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

| <b>Report To</b>  |   |                    | <b>Report Format / Distribution</b> |                |                | <b>Service Requested</b>                                   |                         |                         |                      |                             |  |
|---|---|--------------------|-------------------------------------|----------------|----------------|--|-------------------------|-------------------------|----------------------|-----------------------------|--|
| Company: New Gold Inc.  |   |                    |                                     |                |                | Regular Service  |                         |                         |                      |                             |  |
| Contact: Robyn Lloyd  |   |                    |                                     |                |                | Rush Service (with prior consultation) - surcharge applies |                         |                         |                      |                             |  |
| Address: 1361 Roen Road, Chapple, ON P0W 1A0  |   |                    | Email 1: robyn.lloyd@newgold.com    |                |                | Other - Please contact ALS                                 |                         |                         |                      |                             |  |
| Phone: 807-234-8200 ext. 8029 Fax   |   |                    | Email 2:                            |                |                | <b>Analysis Request</b>                                    |                         |                         |                      |                             |  |
| Invoice To: Same as Report  |   |                    | <b>Client / Project Information</b> |                |                | TSP and Metals   |                         |                         |                      |                             |  |
| Company:  |   |                    | Job #: Air Quality                  |                |                | Pm 2.5   |                         |                         |                      |                             |  |
| Contact:  |   |                    | Location:                           |                |                | Dustfall incl. volatile                                    |                         |                         |                      |                             |  |
| Address:  |   |                    | PO: 4500099107                      |                |                | Hazardous? Provide Data                                    |                         |                         |                      |                             |  |
| Phone: Fax  |   |                    | Sampled by:                         |                |                | Highly Contaminated?                                       |                         |                         |                      |                             |  |
| Lab Work Order #  |   |                    | ALS Contact:                        |                |                | Number of Containers                                       |                         |                         |                      |                             |  |
| Sample #  | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy) | Time<br>(mm)                        | Sample Type    | TSP and Metals | Pm 2.5   | Dustfall incl. volatile | Hazardous? Provide Data | Highly Contaminated? | Number of Containers        |  |
|   | NORTH-TSP-498   | 4-Aug-2023         | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | SOUTH-TSP-498   | 4-Aug-2023         | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTHWEST-TSP-498   | 4-Aug-2023         | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTH-TSP-499   | 10-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | SOUTH-TSP-499   | 10-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTHWEST-TSP-499   | 10-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTH-TSP-500   | 16-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | SOUTH-TSP-500   | 16-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTHWEST-TSP-500   | 16-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTH-TSP-501   | 22-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | SOUTH-TSP-501   | 22-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTHWEST-TSP-501   | 22-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTH-TSP-502   | 28-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | SOUTH-TSP-502   | 28-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTHWEST-TSP-502   | 28-Aug-2023        | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | TRIP BLANK - July TSP   | 5-Sep-2023         | 12:00                               | Air            | X              |  |                         |                         |                      |                             |  |
|   | NORTH-PM2.5-498   | 4-Aug-2023         | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | SOUTH-PM2.5-498   | 4-Aug-2023         | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTHWEST-PM2.5-498   | 4-Aug-2023         | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTH-PM2.5-499   | 10-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | SOUTH-PM2.5-499   | 10-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTHWEST-PM2.5-499   | 10-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTH-PM2.5-500   | 16-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | SOUTH-PM2.5-500   | 16-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTHWEST-PM2.5-500   | 16-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTH-PM2.5-501   | 22-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | SOUTH-PM2.5-501   | 22-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTHWEST-PM2.5-501   | 22-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTH-PM2.5-502   | 28-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | SOUTH-PM2.5-502   | 28-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | NORTHWEST-PM2.5-502   | 28-Aug-2023        | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | TRIP BLANK - JULY PM2.5   | 5-Sep-2023         | 12:00                               | Air            |                | X  |                         |                         |                      |                             |  |
|   | Dustfall- Northwest   | 29-Aug-2023        | 12:00                               | Air            |                |  | X                       |                         |                      |                             |  |
|   | Dustfall - Trip Blank   | 29-Aug-2023        | 12:00                               | Air            |                |  | X                       |                         |                      |                             |  |
|   | Dustfall - North  | 29-Aug-2023        | 12:00                               | Air            |                |  | X                       |                         |                      |                             |  |
|   | Dustfall - South  | 29-Aug-2023        | 12:00                               | Air            |                |  | X                       |                         |                      |                             |  |
| Special Instructions / Regulations / Hazardous Details  |   |                    |                                     |                |                |  |                         |                         |                      |                             |  |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |   |                    |                                     |                |                |  |                         |                         |                      |                             |  |
| Released by:  | Date (dd-mm-yy)   | Time (hh:mm)       | Received by:                        | Date:          | Time:          | Temperature:   | Verified by:            | Date:                   | Time:                | Observations:               |  |
|   |   |                    | ARROW<br>BUNTON                     | 7-Sept<br>Zera | 12:00          | 22.7<br>°C   |                         |                         |                      | Yes (No?)<br>If Yes add SIF |  |

Environmental Division  
Burlington  
Work Order Reference  
**BU2300048**



Telephone : +1 905 331 3111



## CERTIFICATE OF ANALYSIS

**Work Order** : **BU2300089**  
**Client** : **New Gold Inc. (Rainy River)**  
**Contact** : Robyn Lloyd  
**Address** : 24 Marr Rd  
                   Barwick ON Canada P0W 1A0  
**Telephone** : 807 234 8200  
**Project** : Air Quality  
**PO** : 4500059107  
**C-O-C number** : ----  
**Sampler** : Client  
**Site** :  
**Quote number** : Air Quality Standing Offer  
**No. of samples received** : 4  
**No. of samples analysed** : 4

**Page** : 1 of 5  
**Laboratory** : ALS Environmental - Burlington  
**Account Manager** : Claire Kocharakkal  
**Address** : 1435 Norjohn Court, Unit 1  
                   Burlington ON Canada L7L 0E6  
**Telephone** : +1 905 331 3111  
**Date Samples Received** : 04-Oct-2023 12:00  
**Date Analysis Commenced** : 06-Oct-2023  
**Issue Date** : 26-Oct-2023 16:02

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                            | <i>Laboratory Department</i>          |
|--------------------|--|---------------------------------------|
| Aaron Burton       | Login                                      | Administration, Burlington, Ontario   |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation    | Metals, Burnaby, British Columbia     |
| Kinny Wu           | Lab Analyst                                | Metals, Burnaby, British Columbia     |
| Tracy Harley       | Supervisor - Water Quality Instrumentation | Inorganics, Burnaby, British Columbia |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| <i>Qualifier</i> | <i>Description</i>  |
|------------------|---|
| DLB              | Detection Limit Raised. Analyte detected at comparable level in Method Blank. |



## Analytical Results

| Sub-Matrix: Dustfall         |            |              |           |                         | Client sample ID     | North-Dustfall       | South-Dustfall       | Northwest-Dustfall   | Dustfall-Trip Blank  | ---- |
|------------------------------|------------|--------------|-----------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|
| (Matrix: Air)                |            |              |           |                         |                      |                      |                      |                      |                      |      |
| Client sampling date / time  |            |              |           |                         | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | ---- |
| Analyte                      | CAS Number | Method/Lab   | LOR       | Unit                    | BU2300089-001        | BU2300089-002        | BU2300089-003        | BU2300089-004        | -----                | ---- |
|                              |            |              |           |                         | Result               | Result               | Result               | Result               |                      | ---- |
| <b>Field Tests</b>           |            |              |           |                         |                      |                      |                      |                      |                      |      |
| Area sampled, field          | ----       | EF001A/VA    | 0.010     | cm <sup>2</sup>         | 55.4                 | 55.4                 | 55.4                 | 55.4                 | 55.4                 | ---- |
| Sampling time, field         | ----       | EF001B/BU    | 1         | days                    | 31                   | 31                   | 31                   | 31                   | 31                   | ---- |
| <b>Particulates</b>          |            |              |           |                         |                      |                      |                      |                      |                      |      |
| Dustfall, fixed insoluble    | ----       | EC885.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.17                 | 0.31                 | 0.14                 | <0.11                | <0.11                | ---- |
| Dustfall, volatile insoluble | ----       | EC885V.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | 0.36                 | 0.62                 | 0.13                 | <0.10                | <0.10                | ---- |
| Dustfall, total insoluble    | ----       | EC882.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.52                 | 0.92                 | 0.28                 | <0.11                | <0.11                | ---- |
| Dustfall, fixed soluble      | ----       | EC884.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.12                 | 0.22                 | <0.11                | <0.11                | <0.11                | ---- |
| Dustfall, volatile soluble   | ----       | EC884V.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | 0.41                 | 0.44                 | <0.10                | <0.10                | <0.10                | ---- |
| Dustfall, total soluble      | ----       | EC881.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.53                 | 0.65                 | <0.11                | <0.11                | <0.11                | ---- |
| Dustfall, fixed              | ----       | EC883F.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | 0.28                 | 0.52                 | <0.22                | <0.22                | <0.22                | ---- |
| Dustfall, volatile           | ----       | EC883V2.A/VA | 0.10      | mg/dm <sup>2</sup> .day | 0.77                 | 1.05                 | 0.13                 | <0.10                | <0.10                | ---- |
| Dustfall, total              | ----       | EC880T.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | 1.05                 | 1.58                 | 0.28                 | <0.22                | <0.22                | ---- |
| Dustfall, fixed insoluble    | ----       | E885/VA      | 1.9       | mg                      | 2.9                  | 5.3                  | 2.5                  | <1.9                 | <1.9                 | ---- |
| Dustfall, total insoluble    | ----       | E882/VA      | 1.9       | mg                      | 9.0                  | 15.9                 | 4.8                  | <1.9                 | <1.9                 | ---- |
| Dustfall, fixed soluble      | ----       | E884/VA      | 1.9       | mg                      | 2.0                  | 3.7                  | <1.9                 | <1.9                 | <1.9                 | ---- |
| Dustfall, total soluble      | ----       | E881/VA      | 1.9       | mg                      | 9.1                  | 11.2                 | <1.9                 | <1.9                 | <1.9                 | ---- |
| <b>Total Metals</b>          |            |              |           |                         |                      |                      |                      |                      |                      |      |
| Aluminum, total              | 7429-90-5  | EC447/VA     | 0.000160  | mg/dm <sup>2</sup> .day | 0.00204              | 0.00462              | 0.00217              | <0.000175            | <0.000175            | ---- |
| Antimony, total              | 7440-36-0  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000029           | <0.0000029           | <0.0000029           | <0.0000029           | <0.0000029           | ---- |
| Arsenic, total               | 7440-38-2  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000029           | 0.0000044            | <0.0000029           | <0.0000029           | <0.0000029           | ---- |
| Barium, total                | 7440-39-3  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000438            | 0.0000722            | 0.0000402            | <0.0000029           | <0.0000029           | ---- |
| Beryllium, total             | 7440-41-7  | EC447/VA     | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000014            | <0.000014            | <0.000014            | <0.000014            | ---- |
| Bismuth, total               | 7440-69-9  | EC447/VA     | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000014            | <0.000014            | <0.000014            | <0.000014            | ---- |
| Boron, total                 | 7440-42-8  | EC447/VA     | 0.00026   | mg/dm <sup>2</sup> .day | <0.00029             | <0.00029             | <0.00029             | <0.00029             | <0.00029             | ---- |
| Cadmium, total               | 7440-43-9  | EC447/VA     | 0.0000013 | mg/dm <sup>2</sup> .day | 0.0000017            | 0.0000041            | <0.0000013           | <0.0000013           | <0.0000013           | ---- |
| Calcium, total               | 7440-70-2  | EC447/VA     | 0.00052   | mg/dm <sup>2</sup> .day | 0.0178               | 0.0347               | 0.0189               | <0.00058             | <0.00058             | ---- |
| Chromium, total              | 7440-47-3  | EC447/VA     | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | 0.000338             | <0.000014            | <0.000014            | <0.000014            | ---- |
| Cobalt, total                | 7440-48-4  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000029           | 0.0000104            | <0.0000029           | <0.0000029           | <0.0000029           | ---- |





## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | North-Dustfall       | South-Dustfall       | Northwest-Dustfall   | Dustfall-Trip Blank  | ----  |
|-----------------------------|------------|------------|------------|-------------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Client sampling date / time |            |            |            |                         | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | BU2300089-001        | BU2300089-002        | BU2300089-003        | BU2300089-004        | ----- |
|                             |            |            |            |                         | Result               | Result               | Result               | Result               | ----  |
| <b>Total Metals</b>         |            |            |            |                         |                      |                      |                      |                      |       |
| Copper, total               | 7440-50-8  | EC447/VA   | 0.000026   | mg/dm <sup>3</sup> .day | 0.000043             | 0.000119             | <0.000029            | <0.000029            | ----  |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079    | mg/dm <sup>3</sup> .day | 0.00244              | 0.0111               | 0.00268              | <0.00087             | ----  |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.0000013  | mg/dm <sup>3</sup> .day | 0.0000059            | 0.0000098            | 0.0000037            | <0.0000014           | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>3</sup> .day | <0.00014             | <0.00014             | <0.00014             | <0.00014             | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>3</sup> .day | 0.00567              | 0.0115               | 0.00380              | <0.00014             | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>3</sup> .day | 0.000254             | 0.000552             | 0.000251             | <0.0000058           | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>3</sup> .day | <0.0000014           | <0.0000014           | <0.0000014           | <0.0000014           | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>3</sup> .day | <0.0000029           | 0.0000088            | <0.0000014           | <0.0000014           | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>3</sup> .day | 0.000035             | 0.000322             | <0.000014            | <0.000014            | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | 0.0201               | 0.0342               | 0.0045               | <0.0014              | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | 0.0243               | 0.0518               | 0.0086               | <0.0014              | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>3</sup> .day | <0.000029            | <0.000029            | <0.000029            | <0.000029            | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | 0.0038               | 0.0073               | 0.0036               | <0.0014              | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>3</sup> .day | <0.00000029          | 0.00000108           | <0.00000029          | <0.00000029          | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | 0.0051               | 0.0108               | 0.0025               | <0.0014              | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | 0.0000377            | 0.0000780            | 0.0000427            | <0.0000029           | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | <0.0000029           | <0.0000029           | <0.0000029           | <0.0000029           | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | <0.0000029           | <0.0000029           | <0.0000029           | <0.0000029           | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>3</sup> .day | <0.00029             | <0.00029             | <0.00029             | <0.00029             | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | <0.0000026           | <0.0000026           | <0.0000026           | <0.0000026           | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>3</sup> .day | <0.000029            | <0.000029            | <0.000029            | <0.000029            | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>3</sup> .day | 0.000215             | 0.000553             | <0.000087            | <0.000087            | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | 0.0350               | 0.0794               | 0.0373               | <0.0030              | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | <0.000050            | <0.000050            | <0.000050            | <0.000050            | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | <0.000050            | 0.000075             | <0.000050            | <0.000050            | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | 0.000753             | 0.00124              | 0.000690             | <0.000050            | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025             | <0.00025             | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025             | <0.00025             | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050              | <0.0050              | <0.0050              | <0.0050              | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | 0.000030             | 0.000071             | <0.000020            | <0.000020            | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | North-Dustfall           | South-Dustfall       | Northwest-Dustfall   | Dustfall-Trip Blank  | ----  |
|-----------------------------|------------|------------|-----------|------|--------------------------|----------------------|----------------------|----------------------|-------|
| Client sampling date / time |            |            |           |      | 29-Sep-2023<br>00:00     | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | 29-Sep-2023<br>00:00 | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2300089-001            | BU2300089-002        | BU2300089-003        | BU2300089-004        | ----- |
|                             |            |            |           |      | Result                   | Result               | Result               | Result               | ----  |
| <b>Total Metals</b>         |            |            |           |      |                          |                      |                      |                      |       |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010     | mg   | 0.305                    | 0.596                | 0.325                | <0.010               | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025   | mg   | <0.00025                 | 0.00580              | <0.00025             | <0.00025             | ----  |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | <0.000050                | 0.000178             | <0.000050            | <0.000050            | ----  |
| Copper, total               | 7440-50-8  | E447/VA    | 0.00050   | mg   | 0.00074                  | 0.00204              | <0.00050             | <0.00050             | ----  |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.042                    | 0.191                | 0.046                | <0.015               | ----  |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | 0.000102                 | 0.000168             | 0.000064             | <0.000025            | ----  |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025                  | <0.0025              | <0.0025              | <0.0025              | ----  |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.0974                   | 0.197                | 0.0653               | <0.0025              | ----  |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.00436                  | 0.00948              | 0.00431              | <0.00010             | ----  |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025                | <0.000025            | <0.000025            | <0.000025            | ----  |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | <0.000050 <sup>DLB</sup> | 0.000152             | <0.000025            | <0.000025            | ----  |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | 0.00060                  | 0.00554              | <0.00025             | <0.00025             | ----  |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | 0.346                    | 0.587                | 0.078                | <0.025               | ----  |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | 0.417                    | 0.890                | 0.148                | <0.025               | ----  |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050                 | <0.00050             | <0.00050             | <0.00050             | ----  |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | 0.065                    | 0.126                | 0.061                | <0.025               | ----  |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | <0.0000050               | 0.0000186            | <0.0000050           | <0.0000050           | ----  |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | 0.087                    | 0.185                | 0.043                | <0.025               | ----  |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.000648                 | 0.00134              | 0.000733             | <0.000050            | ----  |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050                | <0.000050            | <0.000050            | <0.000050            | ----  |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050                | <0.000050            | <0.000050            | <0.000050            | ----  |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050                  | <0.0050              | <0.0050              | <0.0050              | ----  |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050               | <0.0000050           | <0.0000050           | <0.0000050           | ----  |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050                 | <0.00050             | <0.00050             | <0.00050             | ----  |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | 0.0037                   | 0.0095               | <0.0015              | <0.0015              | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



## QUALITY CONTROL INTERPRETIVE REPORT

|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2300089</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4500059107</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 11</p> <p><b>Laboratory</b> : ALS Environmental - Burlington</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 04-Oct-2023 12:00</p> <p><b>Issue Date</b> : 26-Oct-2023 16:03</p> |
|---|--|

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

### ***Workorder Comments***

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### ***Summary of Outliers***

#### ***Outliers : Quality Control Samples***

- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Method Blank value outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### ***Outliers: Reference Material (RM) Samples***

- No Reference Material (RM) Sample outliers occur.

***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



**Outliers : Quality Control Samples**

*Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes*

Matrix: Air

| Analyte Group                   | Laboratory sample ID | Client/Ref Sample ID | Analyte           | CAS Number | Method | Result                           | Limits      | Comment                              |
|---------------------------------|----------------------|----------------------|-------------------|------------|--------|----------------------------------|-------------|--------------------------------------|
| <b>Method Blank (MB) Values</b> |                      |                      |                   |            |        |                                  |             |                                      |
| Total Metals                    | QC-1182277-001       | ----                 | Molybdenum, total | 7439-98-7  | E447   | 0.000025 <sup>MB-LOR</sup><br>mg | 0.000025 mg | Blank result exceeds permitted value |

**Result Qualifiers**

| Qualifier | Description   |
|-----------|---|
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Trip Blank      | EF001A | 29-Sep-2023   | ----                     | ----          | ----   |      | 24-Oct-2023   | ----          | 26 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>North-Dustfall           | EF001A | 29-Sep-2023   | ----                     | ----          | ----   |      | 24-Oct-2023   | ----          | 26 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Northwest-Dustfall       | EF001A | 29-Sep-2023   | ----                     | ----          | ----   |      | 24-Oct-2023   | ----          | 26 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>South-Dustfall           | EF001A | 29-Sep-2023   | ----                     | ----          | ----   |      | 24-Oct-2023   | ----          | 26 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Trip Blank      | EF001B | 29-Sep-2023   | ----                     | ----          | ----   |      | 06-Oct-2023   | ----          | 7 days  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>North-Dustfall           | EF001B | 29-Sep-2023   | ----                     | ----          | ----   |      | 06-Oct-2023   | ----          | 7 days  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Northwest-Dustfall       | EF001B | 29-Sep-2023   | ----                     | ----          | ----   |      | 06-Oct-2023   | ----          | 7 days  |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>South-Dustfall           | EF001B | 29-Sep-2023   | ----                     | ----          | ----   |      | 06-Oct-2023   | ----          | 7 days  |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Trip Blank      | E885   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>North-Dustfall           | E885   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Northwest-Dustfall       | E885   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>South-Dustfall           | E885   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Trip Blank      | E884   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>North-Dustfall           | E884   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Northwest-Dustfall       | E884   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>South-Dustfall           | E884   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----   |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E882   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>North-Dustfall                  | E882   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Northwest-Dustfall              | E882   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>South-Dustfall                  | E882   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E881   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>North-Dustfall                  | E881   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Northwest-Dustfall              | E881   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>South-Dustfall                  | E881   | 29-Sep-2023   | 16-Oct-2023              | ----          | ----    |      | 16-Oct-2023   | 0 days        | 18 days | ✔    |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E516   | 29-Sep-2023   | 12-Oct-2023              | 180 days      | 14 days | ✔    | 13-Oct-2023   | 180 days      | 1 days  | ✔    |





Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>North-Dustfall                  | E516   | 29-Sep-2023   | 12-Oct-2023              | 180 days      | 14 days | ✔    | 13-Oct-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Northwest-Dustfall              | E516   | 29-Sep-2023   | 12-Oct-2023              | 180 days      | 14 days | ✔    | 13-Oct-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>South-Dustfall                  | E516   | 29-Sep-2023   | 12-Oct-2023              | 180 days      | 14 days | ✔    | 13-Oct-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E447   | 29-Sep-2023   | 18-Oct-2023              | 180 days      | 20 days | ✔    | 20-Oct-2023   | 180 days      | 22 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>North-Dustfall                  | E447   | 29-Sep-2023   | 18-Oct-2023              | 180 days      | 20 days | ✔    | 20-Oct-2023   | 180 days      | 22 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Northwest-Dustfall              | E447   | 29-Sep-2023   | 18-Oct-2023              | 180 days      | 20 days | ✔    | 20-Oct-2023   | 180 days      | 22 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>South-Dustfall                  | E447   | 29-Sep-2023   | 18-Oct-2023              | 180 days      | 20 days | ✔    | 20-Oct-2023   | 180 days      | 22 days | ✔    |  |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1182281  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1182277  | 1     | 9       | 11.1          | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1187763  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1187764  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1187766  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1182281  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1182277  | 1     | 9       | 11.1          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1187765  | 1     | 8       | 12.5          | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1187763  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1187764  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1187766  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1182281  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1182277  | 1     | 9       | 11.1          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1187765  | 1     | 8       | 12.5          | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1182281  | 1     | 4       | 25.0          | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods                            | Method / Lab                              | Matrix | Method Reference            | Method Descriptions   |
|---|---|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)      | E447<br>ALS Environmental - Vancouver     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)         | E516<br>ALS Environmental - Vancouver     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)    | E881<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)  | E882<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)    | E884<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)   | E885<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm2.day)  | EC447<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm2.day by field information.   |
| Total Mercury by CVAAS (Dustfall, mg/dm2.day) | EC516<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm2.day based on field information.   |
| Total Dustfalls by Calculation (mg/dm2.day)   | EC880T.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |



| Analytical Methods  | Method / Lab                               | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                   |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                 |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>ALS Environmental - Vancouver    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>ALS Environmental - Burlington   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|



| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                    | <i>Matrix</i> | <i>Method Reference</i>     | <i>Method Descriptions</i>  |
|---|--|---------------|-----------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br>ALS Environmental - Vancouver | Air           | EPA 6020A                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br>ALS Environmental - Vancouver | Air           | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br>ALS Environmental - Vancouver | Air           | BC LAB MANUAL - PARTICULATE | Dustfall sample preparation.  |

## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2300089</b>                        | <b>Page</b>                    | <b>: 1 of 8</b>  |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : ALS Environmental - Burlington                                   |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 04-Oct-2023 12:00  |
| <b>PO</b>                      | : 4500059107                              | <b>Date Analysis Commenced</b> | : 06-Oct-2023  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 26-Oct-2023 16:03  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 4                                       |                                |  |
| <b>No. of samples analysed</b> | : 4                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                            | <i>Laboratory Department</i>                    |
|--------------------|--|---|
| Aaron Burton       | Login                                      | Burlington Administration, Burlington, Ontario  |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation    | Vancouver Metals, Burnaby, British Columbia     |
| Kinny Wu           | Lab Analyst                                | Vancouver Metals, Burnaby, British Columbia     |
| Tracy Harley       | Supervisor - Water Quality Instrumentation | Vancouver Inorganics, Burnaby, British Columbia |

Page : 2 of 8  
Work Order : BU2300089  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

### Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

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## Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air

|                                       |                  |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---------------------------------------|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                  | Client sample ID | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1182277)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300089-001                         | North-Dustfall   | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | 0.0350          | 0.0341           | 2.50%                | 40%              | ----      |
|                                       |                  | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | 0.000753        | 0.000753         | 0.0532%              | 40%              | ----      |
|                                       |                  | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | 0.000030        | 0.000028         | 0.000002             | Diff <2x LOR     | ----      |
|                                       |                  | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | 0.305           | 0.296            | 2.96%                | 30%              | ----      |
|                                       |                  | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg   | 0.00074         | 0.00062          | 0.00012              | Diff <2x LOR     | ----      |
|                                       |                  | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | 0.042           | 0.042            | 0.0002               | Diff <2x LOR     | ----      |
|                                       |                  | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | 0.000102        | 0.000086         | 0.000016             | Diff <2x LOR     | ----      |
|                                       |                  | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | 0.0974          | 0.0940           | 3.54%                | 30%              | ----      |
|                                       |                  | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | 0.00436         | 0.00417          | 4.61%                | 30%              | ----      |
|                                       |                  | Molybdenum, total | 7439-98-7  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | 0.00060         | 0.00065          | 0.00005              | Diff <2x LOR     | ----      |
|                                       |                  | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | 0.346           | 0.336            | 3.12%                | 30%              | ----      |
|                                       |                  | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | 0.417           | 0.407            | 2.29%                | 40%              | ----      |
|                                       |                  | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | 0.065           | 0.059            | 0.006                | Diff <2x LOR     | ----      |
|                                       |                  | Silver, total     | 7440-22-4  | E447   | 0.0000050                         | mg   | <0.0000050      | 0.0000067        | 0.0000017            | Diff <2x LOR     | ----      |
|                                       |                  | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | 0.087           | 0.085            | 0.003                | Diff <2x LOR     | ----      |
|                                       |                  | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | 0.000648        | 0.000622         | 4.02%                | 40%              | ----      |
|                                       |                  | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Titanium, total   | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Uranium, total    | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |



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 Work Order : BU2300089  
 Client : New Gold Inc. (Rainy River)  
 Project : Air Quality



| Sub-Matrix: Air                                   |                  |                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---|------------------|-----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                              | Client sample ID | Analyte         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1182277) - continued</b> |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300089-001                                     | North-Dustfall   | Vanadium, total | 7440-62-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Zinc, total     | 7440-66-6  | E447   | 0.0015                            | mg   | 0.0037          | 0.0037           | 0.000010             | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1182281)</b>             |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300089-001                                     | North-Dustfall   | Mercury, total  | 7439-97-6  | E516   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                              | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--------------------------------------|------------|--------|----------|------|------------|-----------|
| <b>Particulates (QCLot: 1187763)</b> |            |        |          |      |            |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1187764)</b> |            |        |          |      |            |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1187765)</b> |            |        |          |      |            |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1187766)</b> |            |        |          |      |            |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | <1.9       | ---       |
| <b>Total Metals (QCLot: 1182277)</b> |            |        |          |      |            |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | # 0.000025 | MB-LOR    |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ---       |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ---       |



Sub-Matrix: Air

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1182277) - continued</b> |            |        |          |      |            |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 1182281)</b>             |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |

**Qualifiers**

| Qualifier | Description   |
|-----------|---|
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |



### Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                      |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|                                      |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                              | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Particulates (QCLot: 1187763)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | 30 mg                                  | 96.8         | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1187764)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | 119 mg                                 | 108          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1187765)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | 200 mg                                 | 100          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1187766)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | 30 mg                                  | 97.9         | 85.0                | 115  | ---       |
| <b>Total Metals (QCLot: 1182277)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 113          | 80.0                | 120  | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 111          | 80.0                | 120  | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 114          | 80.0                | 120  | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 111          | 80.0                | 120  | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 108          | 80.0                | 120  | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 108          | 80.0                | 120  | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 103          | 80.0                | 120  | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 111          | 80.0                | 120  | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 110          | 80.0                | 120  | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 110          | 80.0                | 120  | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 111          | 80.0                | 120  | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 108          | 80.0                | 120  | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 112          | 80.0                | 120  | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 110          | 80.0                | 120  | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 111          | 80.0                | 120  | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 112          | 80.0                | 120  | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 110          | 80.0                | 120  | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 110          | 80.0                | 120  | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 110          | 80.0                | 120  | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 112          | 80.0                | 120  | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 114          | 80.0                | 120  | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 105          | 80.0                | 120  | ---       |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 114          | 80.0                | 120  | ---       |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 100          | 80.0                | 120  | ---       |



| Sub-Matrix: Air                                  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Analyte  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High |           |
| <b>Total Metals (QCLot: 1182277) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 111          | 80.0                | 120  | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 113          | 80.0                | 120  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 98.7         | 80.0                | 120  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 111          | 80.0                | 120  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 118          | 80.0                | 120  | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 111          | 80.0                | 120  | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 110          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 1182281)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 93.5         | 70.0                | 130  | ----      |

### Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Sub-Matrix: Air                      |                  |                |            |        | Matrix Spike (MS) Report |              |                     |      |           |      |
|--------------------------------------|------------------|----------------|------------|--------|--------------------------|--------------|---------------------|------|-----------|------|
|                                      |                  |                |            |        | Spike                    | Recovery (%) | Recovery Limits (%) |      | Qualifier |      |
| Laboratory sample ID                 | Client sample ID | Analyte        | CAS Number | Method | Concentration            | Target       | MS                  | Low  |           | High |
| <b>Total Metals (QCLot: 1182281)</b> |                  |                |            |        |                          |              |                     |      |           |      |
| BU2300089-002                        | South-Dustfall   | Mercury, total | 7439-97-6  | E516   | 0.000418 mg              | 0.00044 mg   | 94.9                | 70.0 | 130       | ---- |



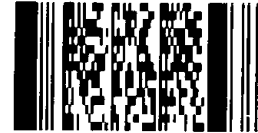
Chain of Custody / Analytical Request Form  
 1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
 Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com



L2752968-COFC

| Report To        |   |                    | Report Format / Distribution |             |                | Service Requested  |                         |  |  |  |                          |                      |                      |
|------------------|---|--------------------|------------------------------|-------------|----------------|--|-------------------------|--|--|--|--------------------------|----------------------|----------------------|
| Company:         |   |                    | Email 1:                     |             |                | Regular Service  |                         |  |  |  |                          |                      |                      |
| Contact:         |   |                    | Email 2:                     |             |                | Rush Service (with prior consultation) - surcharge applies |                         |  |  |  |                          |                      |                      |
| Address:         |   |                    | Client / Project Information |             |                | Other - Please contact ALS                                 |                         |  |  |  |                          |                      |                      |
| Phone:           |   |                    | Job #:                       |             |                | Analysis Request   |                         |  |  |  |                          |                      |                      |
| Invoice To       |   |                    | Location:                    |             |                |  |                         |  |  |  |                          |                      |                      |
| Company:         |   |                    | PO:                          |             |                |  |                         |  |  |  |                          |                      |                      |
| Contact:         |   |                    | Sampled by:                  |             |                |  |                         |  |  |  |                          |                      |                      |
| Address:         |   |                    | ALS Contact:                 |             |                |  |                         |  |  |  |                          |                      |                      |
| Phone:           |   |                    |                              |             |                |  |                         |  |  |  |                          |                      |                      |
| Lab Work Order # |   |                    |                              |             |                |  |                         |  |  |  |                          |                      |                      |
| Sample #         | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy) | Time<br>(hh:mm)              | Sample Type | TSP and Metals | PM 2.5   | Dustfall Incl. volatile |  |  |  | Hazardous? Provide Detls | Highly Contaminated? | Number of Containers |
|                  | NORTH-TSP-503   | 3-Sep-2023         | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-TSP-503   | 3-Sep-2023         | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-TSP-503   | 3-Sep-2023         | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-TSP-504   | 9-Sep-2023         | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-TSP-504   | 9-Sep-2023         | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-TSP-504   | 9-Sep-2023         | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-TSP-505   | 15-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-TSP-505   | 15-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-TSP-505   | 15-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-TSP-506   | 21-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-TSP-506   | 21-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-TSP-506   | 21-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-TSP-507   | 27-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-TSP-507   | 27-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-TSP-507   | 27-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | TRIP BLANK - September TSP  | 30-Sep-2023        | 12:00                        | Air         | X              |  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-PM2.5-503   | 3-Sep-2023         | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-PM2.5-503   | 3-Sep-2023         | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-PM2.5-503   | 3-Sep-2023         | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-PM2.5-504   | 9-Sep-2023         | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-PM2.5-504   | 9-Sep-2023         | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-PM2.5-504   | 9-Sep-2023         | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-PM2.5-505   | 15-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-PM2.5-505   | 15-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-PM2.5-505   | 15-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-PM2.5-506   | 21-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-PM2.5-506   | 21-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-PM2.5-506   | 21-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTH-PM2.5-507   | 27-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | SOUTH-PM2.5-507   | 27-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | NORTHWEST-PM2.5-507   | 27-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | TRIP BLANK - September- PM2.5   | 30-Sep-2023        | 12:00                        | Air         |                | X  |                         |  |  |  |                          |                      |                      |
|                  | Dustfall - Northwest  | 29-Sep-2023        | 12:00                        | Air         |                |  | X                       |  |  |  |                          |                      |                      |
|                  | Dustfall - Trip Blank   | 29-Sep-2023        | 12:00                        | Air         |                |  | X                       |  |  |  |                          |                      |                      |
|                  | Dustfall - North  | 29-Sep-2023        | 12:00                        | Air         |                |  | X                       |  |  |  |                          |                      |                      |
|                  | Dustfall - South  | 29-Sep-2023        | 12:00                        | Air         |                |  | X                       |  |  |  |                          |                      |                      |

Environmental Division  
 Burlington  
 Work Order Reference  
**BU2300089**



Telephone : +1 905 331 3111

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

| Released by: | Date (dd-mm-yy) | Time (hh:mm) | Received by:    | Date:         | Time: | Temperature: | Verified by: | Date: | Time: | Observations:            |
|--------------|-----------------|--------------|-----------------|---------------|-------|--------------|--------------|-------|-------|--------------------------|
|              |                 |              | ARROW<br>BULTON | 4-Oct<br>2023 | 12:00 | 22.0<br>°C   |              |       |       | Yes/No<br>If Yes add SIF |



## Confirmation of Sample Receipt

Bureau Veritas Job Number: C362802

Job Received: 2023/08/11

Final Report Due: 2023/08/23

Disposal Date: 2023/09/19

### Invoice Information

Attn: Accounts Payable  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com

### Report Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com  
robyn.lloyd@newgold.com

### Project Information

**Quote #:** C21563  
**PO/AFE#:** 4500022601  
**Project #:** TC111504.2015.6  
**Site Location:** NEW GOLD - EMO, ON  
**Site #:** 2023/05/29 - 2023/06/30  
**Sampled By:** N/A



## Confirmation of Sample Receipt

Bureau Veritas Job Number: C362802

Job Received: 2023/08/11

Final Report Due: 2023/08/23

Disposal Date: 2023/09/19

### Parameter Summary

| Package/Test         | Parameter      | RDL * | Unit | Samples |
|----------------------|----------------|-------|------|---------|
| NO2 Passive Analysis | Calculated NO2 | 0.1   | ppb  | All     |
| SO2 Passive Analysis | Calculated SO2 | 0.1   | ppb  | All     |

*\*RDLs are subject to change based on interferences present at the time of analysis.*





6744 - 50 St. Edmonton AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Bureau Veritas Job Number:

### PASSIVE AIR CHAIN OF CUSTODY

Page 1 of 1

**Invoice To**

Company Name ALS Environmental

Contact Name Robyn Lloyd

Address \_\_\_\_\_

City/Postal Code \_\_\_\_\_

Phone/Fax# \_\_\_\_\_

**Report To**

Name & Email Address  
Robyn Lloyd  
1361 Keen Rd  
Chapelle ON Pow IAD

**Service Requested**

RUSH  
(Please contact for TAT)

REGULAR

Company Name  
**ALS**

Project Name/LSD  
**New Gold**  
**TC111504.2015.6**

#### ANALYTICAL INFORMATION

| Sample ID or Location (LSD) | Sample Start Date (DD/MM/YY) | Time (24 hrs) (HH:MM) | Sample End Date (DD/MM/YY) | Time (HH:MM) | Volume (m3) PM/TSP Only | Analysis Required |     |     |    |     |       |      |     |          |  |  |  |  |  |
|-----------------------------|------------------------------|-----------------------|----------------------------|--------------|-------------------------|-------------------|-----|-----|----|-----|-------|------|-----|----------|--|--|--|--|--|
|                             |                              |                       |                            |              |                         | SO2               | H2S | NO2 | O3 | NH3 | PM2.5 | PM10 | TSP | Dustfall |  |  |  |  |  |
| PRP South                   | 30/06/23                     |                       | 30/06/23                   |              |                         | X                 | X   |     |    |     |       |      |     |          |  |  |  |  |  |
| PRP North                   | 30/06/23                     |                       | 30/06/23                   |              |                         | X                 | X   |     |    |     |       |      |     |          |  |  |  |  |  |
| Blank                       |                              |                       |                            |              |                         | X                 | X   |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |

Notes/Comments: Client 13251 / Scenario 12539

Sampled By \_\_\_\_\_ Phone/Email \_\_\_\_\_ Received By \_\_\_\_\_ Date/Time \_\_\_\_\_ Project # \_\_\_\_\_

Date Shipped \_\_\_\_\_ Signature \_\_\_\_\_ PO# \_\_\_\_\_

NS  
25-08-11      302  
3002      013100

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## Confirmation of Sample Receipt

Bureau Veritas Job Number: C371471

Job Received: 2023/09/08

Final Report Due: 2023/09/20

Disposal Date: 2023/10/16

### Invoice Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com

### Report Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com  
robyn.lloyd@newgold.com

### Project Information

**Quote #:** C21563  
**PO/AFE#:** 4500022601  
**Project #:** TC111504.2015.6  
**Site Location:** NEW GOLD - EMO, ON  
**Site #:** 2023/07/30 - 2023/08/29  
**Sampled By:** N/A



## Confirmation of Sample Receipt

Bureau Veritas Job Number: C371471

Job Received: 2023/09/08

Final Report Due: 2023/09/20

Disposal Date: 2023/10/16

### Parameter Summary

| Package/Test         | Parameter      | RDL * | Unit | Samples |
|----------------------|----------------|-------|------|---------|
| NO2 Passive Analysis | Calculated NO2 | 0.1   | ppb  | All     |
| SO2 Passive Analysis | Calculated SO2 | 0.1   | ppb  | All     |

*\*RDLs are subject to change based on interferences present at the time of analysis.*



6744 - 50 St. Edmonton AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Bureau Veritas Job Number:

### PASSIVE AIR CHAIN OF CUSTODY

Page 1 of 1

**Invoice To**  
 Company Name ALS Environmental  
 Contact Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/Postal Code \_\_\_\_\_  
 Phone/Fax# \_\_\_\_\_

**Report To**  
 Name & Email Address  
Robyn Lloyd  
robyn.lloyd@newgold.com

**Service Requested**  
 RUSH  
 (Please contact for TAT)  
 REGULAR

**Company Name**  
**ALS**  
 Project Name/LSD  
**New Gold**  
**TC111504.2015.6**

#### ANALYTICAL INFORMATION

#### Analysis Required

| Sample ID or Location (LSD) | Sample Start Date (DD/MM/YY) | Time (24 hrs) (HH:MM) | Sample End Date (DD/MM/YY) | Time (HH:MM) | Volume (m3)<br>PM/TSP Only | SO2 | H2S | NO2 | O3 | NH3 | PM2.5 | PM10 | TSP | Dustfall |
|-----------------------------|------------------------------|-----------------------|----------------------------|--------------|----------------------------|-----|-----|-----|----|-----|-------|------|-----|----------|
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
| PRP South                   | 30/07/23                     | 12:00                 | 2023/08/29                 | 12:00        |                            | X   |     | X   |    |     |       |      |     |          |
| PRP North                   | 30/07/23                     | 12:00                 | 2023/08/29                 | 12:00        |                            | X   |     | X   |    |     |       |      |     |          |
| Blank                       |                              |                       |                            |              |                            | X   |     | X   |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |
|                             |                              |                       |                            |              |                            |     |     |     |    |     |       |      |     |          |

Notes/Comments: Client 13251 / Scenario 12539

Sampled By \_\_\_\_\_ Phone/Email \_\_\_\_\_ Received By NS Date/Time 23-09-08 Project # \_\_\_\_\_  
 Date Shipped 2023-09-05 Signature Robyn Lloyd PO# 3502 3NO2 C08145

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Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/08/29 - 2023/09/29  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/10/19**  
 Report #: R3412775  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C381087**

**Received: 2023/10/06, 08:00**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/10/13 | 2023/10/18 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/10/10 | 2023/10/18 | PTC SOP-00149     | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.  
 Results relate only to the items tested.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

=====

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BUREAU  
VERITAS

Bureau Veritas Job #: C381087  
Report Date: 2023/10/19

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | CBH181              | CBH189              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/08/29<br>12:00 | 2023/08/29<br>12:00 |     |          |
|                                  | UNITS | PRP SOUTH           | PRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.7                 | 0.3                 | 0.1 | B152802  |
| Calculated SO2                   | ppb   | <0.1                | <0.1                | 0.1 | B146483  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU  
VERITAS**

Bureau Veritas Job #: C381087  
Report Date: 2023/10/19

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C381087  
Report Date: 2023/10/19

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC<br>Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| B146483        | OZ   | Spiked Blank | Calculated SO2 |               |       | 100      | %     | 90 - 110  |
| B146483        | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |
| B152802        | S1T  | Spiked Blank | Calculated NO2 |               |       | 97       | %     | 90 - 110  |
| B152802        | S1T  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.





BUREAU  
VERITAS

Bureau Veritas Job #: C381087

Report Date: 2023/10/19

ALS Environmental

Client Project #: TC111504.2015.6

Site Location: NEW GOLD - EMO, ON

Your P.O. #: 4500022601

Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE


The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'S. Gloux', written over a horizontal line.

Steven Gloux, Senior Analyst

---

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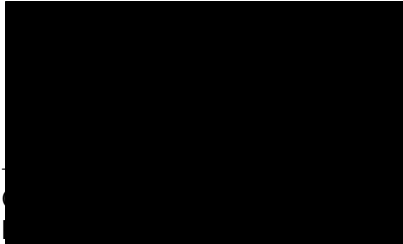
New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 10-AUG-23  
Report Date: 31-AUG-23 11:40 (MT)  
Version: FINAL

Client Phone: 807-234-8200


# Certificate of Analysis

Lab Work Order #: L2752163  
Project P.O. #: 4700001830  
Job Reference:  
C of C Numbers:  
Legal Site Desc:



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ADDRESS: 1435 Noriohn Court, Unit 1, Burlington, ON, L7L 0F6, Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752163-1 NORTH-TSP-493<br>Sampled By: Client on 05-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 28600  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 163    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 364    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 13.8   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 14.8   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-2 NORTH-TSP-494<br>Sampled By: Client on 11-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 40700  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 127    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 423    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 17.8   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 17.9   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-3 NORTH-TSP-495<br>Sampled By: Client on 17-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 35700  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 153    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 121    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 6.5    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 10.9   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752163-4 NORTH-TSP-496<br>Sampled By: Client on 23-JUL-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 42700  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 137    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 79     |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 5.1    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 13.9   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-5 NORTH-TSP-497<br>Sampled By: Client on 29-JUL-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 47800  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | 6.1    |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 98.1   |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 1070   |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 31.6   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | 7.4    |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 13.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-6 SOUTH-TSP-493<br>Sampled By: Client on 05-JUL-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 36000  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 171    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 684    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 22.3   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 17.5   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752163-7 SOUTH-TSP-494<br>Sampled By: Client on 11-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 29000  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 154    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 273    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 8.4    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 9.8    |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-8 SOUTH-TSP-495<br>Sampled By: Client on 17-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 31900  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 165    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 191    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 6.9    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 11.6   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-9 SOUTH-TSP-496<br>Sampled By: Client on 23-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 65800  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)  | 167    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)  | 1000   |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)   | 41.5   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)  | 25.8   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752163-10 SOUTH-TSP-497<br>Sampled By: Client on 29-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 92300  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)   | 7.3    |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)   | 196    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)   | 2600   |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)  | 83.3   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)   | 27.5   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)   | 4.0    |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)   | 35.6   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-11 NORTHWEST-TSP-493<br>Sampled By: Client on 05-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 25100  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)   | 400    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)   | 167    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)  | 5.1    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)   | 9.1    |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-12 NORTHWEST-TSP-494<br>Sampled By: Client on 11-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 26400  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)   | 394    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)   | 92     |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)  | 3.9    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)   | 10.4   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752163-13 NORTHWEST-TSP-495<br>Sampled By: Client on 17-JUL-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 32900  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)   | 246    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)   | 81     |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)  | 4.3    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)   | 9.4    |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-14 NORTHWEST-TSP-496<br>Sampled By: Client on 23-JUL-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 39100  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)   | 355    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)   | 325    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)  | 12.3   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)   | 16.2   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-15 NORTHWEST-TSP-497<br>Sampled By: Client on 29-JUL-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 27400  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)   | 293    |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)   | 176    |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)  | 4.3    |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)   | 7.7    |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752163-16 TSP-JULY TRIP BLANK<br>Sampled By: Client on 30-JUL-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 12400  |            | 2300 | ug    |           | 10-AUG-23 | R5966460 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Copper (Cu)   | <4.0   |            | 4.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Iron (Fe)   | 21     |            | 20   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Manganese (Mn)  | <1.0   |            | 1.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| Zinc (Zn)   | 6.0    |            | 5.0  | ug    | 25-AUG-23 | 28-AUG-23 | R5966677 |
| L2752163-17 NORTH-PM2.5-493<br>Sampled By: Client on 05-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 38     |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-18 NORTH-PM2.5-494<br>Sampled By: Client on 11-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 57     |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-19 NORTH-PM2.5-495<br>Sampled By: Client on 17-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 142    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-20 NORTH-PM2.5-496<br>Sampled By: Client on 23-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 571    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-21 NORTH-PM2.5-497<br>Sampled By: Client on 29-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 62     |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-22 SOUTH-PM2.5-493<br>Sampled By: Client on 05-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | <15    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-23 SOUTH-PM2.5-494<br>Sampled By: Client on 11-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                            |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752163-23 SOUTH-PM2.5-494<br>Sampled By: Client on 11-JUL-23<br>Matrix: 47mm Filter<br>Total particulate  | 84     |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-24 SOUTH-PM2.5-495<br>Sampled By: Client on 17-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 152    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-25 SOUTH-PM2.5-496<br>Sampled By: Client on 23-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 661    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-26 SOUTH-PM2.5-497<br>Sampled By: Client on 29-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 15     |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-27 NORTHWEST-PM2.5-493<br>Sampled By: Client on 05-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate   | <15    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-28 NORTHWEST-PM2.5-494<br>Sampled By: Client on 11-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate   | 33     |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-29 NORTHWEST-PM2.5-495<br>Sampled By: Client on 17-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate   | 188    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-30 NORTHWEST-PM2.5-496<br>Sampled By: Client on 23-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate   | 605    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-31 NORTHWEST-PM2.5-497<br>Sampled By: Client on 29-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate   | 63     |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
| L2752163-32 PM2.5-JULY TRIP BLANK<br>Sampled By: Client on 30-JUL-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <15    |            | 15   | ug    |           | 10-AUG-23 | R5966659 |
|   |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

# Quality Control Report

Workorder: L2752163

Report Date: 31-AUG-23

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 |                   |        |           |       |     |        |           |
|                        | <b>Filter</b>   |                   |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5966677</b> |                   |        |           |       |     |        |           |
| <b>WG3786727-3</b>     | <b>DUP</b>      | <b>L2752163-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Copper (Cu)            |                 | 163               | 176    |           | ug    | 8.0 | 20     | 30-AUG-23 |
| Iron (Fe)              |                 | 364               | 418    |           | ug    | 14  | 25     | 30-AUG-23 |
| Manganese (Mn)         |                 | 13.8              | 15.1   |           | ug    | 8.7 | 20     | 30-AUG-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 30-AUG-23 |
| Zinc (Zn)              |                 | 14.8              | 16.2   |           | ug    | 9.0 | 20     | 30-AUG-23 |
| <b>WG3786727-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 99.4   |           | %     |     | 80-120 | 28-AUG-23 |
| Cadmium (Cd)           |                 |                   | 103.2  |           | %     |     | 80-120 | 28-AUG-23 |
| Cobalt (Co)            |                 |                   | 103.0  |           | %     |     | 80-120 | 28-AUG-23 |
| Chromium (Cr)          |                 |                   | 103.0  |           | %     |     | 80-120 | 28-AUG-23 |
| Copper (Cu)            |                 |                   | 101.0  |           | %     |     | 80-120 | 28-AUG-23 |
| Iron (Fe)              |                 |                   | 101.0  |           | %     |     | 80-120 | 28-AUG-23 |
| Manganese (Mn)         |                 |                   | 101.0  |           | %     |     | 80-120 | 28-AUG-23 |
| Nickel (Ni)            |                 |                   | 99.4   |           | %     |     | 80-120 | 28-AUG-23 |
| Lead (Pb)              |                 |                   | 99.8   |           | %     |     | 80-120 | 28-AUG-23 |
| Selenium (Se)          |                 |                   | 100.0  |           | %     |     | 80-120 | 28-AUG-23 |
| Vanadium (V)           |                 |                   | 101.0  |           | %     |     | 80-120 | 28-AUG-23 |
| Zinc (Zn)              |                 |                   | 102.5  |           | %     |     | 80-120 | 28-AUG-23 |
| <b>WG3786727-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 28-AUG-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 28-AUG-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 28-AUG-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 28-AUG-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 28-AUG-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 28-AUG-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 28-AUG-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 28-AUG-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 28-AUG-23 |

# Quality Control Report

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| Test                       | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>     |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5966677</b> |                    |        |           |       |     |        |           |
| <b>WG3786727-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Selenium (Se)              |                 |                    | <1.3   |           | ug    |     | 1.25   | 28-AUG-23 |
| Vanadium (V)               |                 |                    | <5.0   |           | ug    |     | 10     | 28-AUG-23 |
| Zinc (Zn)                  |                 |                    | <4.5   |           | ug    |     | 4.5    | 28-AUG-23 |
| <b>WG3786727-4</b>         | <b>MS</b>       | <b>L2752163-1</b>  |        |           |       |     |        |           |
| Arsenic (As)               |                 |                    | 99.2   |           | %     |     | 75-125 | 28-AUG-23 |
| Cadmium (Cd)               |                 |                    | 100.2  |           | %     |     | 75-125 | 28-AUG-23 |
| Cobalt (Co)                |                 |                    | 97.2   |           | %     |     | 75-125 | 28-AUG-23 |
| Chromium (Cr)              |                 |                    | 101.7  |           | %     |     | 75-125 | 28-AUG-23 |
| Copper (Cu)                |                 |                    | N/A    | MS-B      | %     |     | -      | 28-AUG-23 |
| Iron (Fe)                  |                 |                    | N/A    | MS-B      | %     |     | -      | 28-AUG-23 |
| Manganese (Mn)             |                 |                    | 102.3  |           | %     |     | 75-125 | 28-AUG-23 |
| Nickel (Ni)                |                 |                    | 95.5   |           | %     |     | 75-125 | 28-AUG-23 |
| Lead (Pb)                  |                 |                    | 97.7   |           | %     |     | 75-125 | 28-AUG-23 |
| Selenium (Se)              |                 |                    | 98.0   |           | %     |     | 75-125 | 28-AUG-23 |
| Vanadium (V)               |                 |                    | 99.9   |           | %     |     | 75-125 | 28-AUG-23 |
| Zinc (Zn)                  |                 |                    | 102.1  |           | %     |     | 75-125 | 28-AUG-23 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5966460</b> |                    |        |           |       |     |        |           |
| <b>WG3786713-2</b>         | <b>DUP</b>      | <b>L2752163-1</b>  |        |           |       |     |        |           |
| Total particulate          |                 | 28600              | 28600  |           | ug    | 0.0 | 5      | 10-AUG-23 |
| <b>WG3786713-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <100   |           | ug    |     | 100    | 10-AUG-23 |
| <b>PART-M212 F-GRAV-BU</b> |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5966659</b> |                    |        |           |       |     |        |           |
| <b>WG3786748-2</b>         | <b>DUP</b>      | <b>L2752163-17</b> |        |           |       |     |        |           |
| Total particulate          |                 | 38                 | 38     |           | ug    | 0.0 | 10     | 10-AUG-23 |
| <b>WG3786748-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <15    |           | ug    |     | 15     | 10-AUG-23 |

# Quality Control Report

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

---

| Qualifier | Description  |
|-----------|--|
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2752163-COFC



Chain of Custody / Analytical Request Form
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

Report To: Company: (New Gold Inc.) Report Format / Distribution: Service Requested: Regular Service
Rush Services (with prior consultation) - surcharge applies
Other - Please contact ALS
Analysis Request: TSP and Metals, Pm 2.5, Dustfall Incl. volatile, Hazardous? Provide Data, Highly Contaminated?, Number of Containers

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

Released by: Date (dd-mm-yy) Time (hh-) Received by: Date: Time: Temperature: Verified by: Date: Time: Observations: Yes (No ?) If Yes add SIF

ARRON BUSTAN 10-Aug 2023 11:40 22.4 °C

Observations: Yes (No ?) If Yes add SIF



# Sample Receipt Confirmation

33 Samples received at ALS in BURLINGTON

|   |   |
|---|---|
| <b>Job Reference #:</b> N/A                 | <b>Date Sampled:</b> 7/5/2023   |
| <b>Project PO #:</b> 4700001830             | <b>Date Received:</b> 8/10/2023   |
| <b>Legal Site Description:</b> N/A          | <b>Sampled By:</b> Client   |
| <b>Quote #:</b> Q77307                      | <b>Chain of Custody:</b> N/A  |
| <b>Lab Work Order #:</b> L2752163           | <b>Account Manager:</b> Claire Kocharakkal, B.Sc.                                     |
| <b>Estimated Completion Date:</b> 8/31/2023 | <b>Estimated Sample Disposal Date:</b> See Sample Disposal Information section below. |

**Sample Integrity Observations:** No observations were identified for this work order submission.

## Report Distribution:

**Company Name:** New Gold Inc. Rainy River Project  
**Contact:** Robyn Lloyd  
**Address:** 24 Marr Rd  
 Barwick, ON P0W 1A0  
**Phone:** 807-234-8200  
**Fax:** --  
**Email:** robyn.lloyd@newgold.com  
 Garnet.Cornell@newgold.com  
 rainyriver.labresults@newgold.com  
 shubham.shringi@trinityconsultants.com  
**EDD Email:** --  
**Distribution:** **Hard Copy:** N **Email:** Y **Fax:** N  
**EDD:** N

## Invoice Distribution:

**Acct Name:**New Gold Inc. Rainy River Project  
**Contact:**Garnet Cornell  
**Address:**5967 Highway 11/71, P.O. Box 5  
 Emo, ON, P0W 1E0  
**Phone:**807-234-8200  
**Fax:**807-482-2834  
**Invoice Email:**rainyriver.labresults@newgold.com  
 rainyriver.accounts@newgold.com  
 Garnet.Cornell@newgold.com  
 robyn.lloyd@newgold.com  
**Project #:**N/A  
**Account #:**GOLD100  
**Distribution:** **Hard Copy:**Y **Email:** Y

| Lab Sample ID | Client Sample ID | Date Sampled       | Date Received      | Sample Due Date    | Priority Flag | Sample Type   |
|---------------|------------------|--------------------|--------------------|--------------------|---------------|---------------|
| L2752163-1    | NORTH-TSP-493    | 7/5/2023 12:00 AM  | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-2    | NORTH-TSP-494    | 7/11/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-3    | NORTH-TSP-495    | 7/17/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-4    | NORTH-TSP-496    | 7/23/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-5    | NORTH-TSP-497    | 7/29/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-6    | SOUTH-TSP-493    | 7/5/2023 12:00 AM  | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-7    | SOUTH-TSP-494    | 7/11/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-8    | SOUTH-TSP-495    | 7/17/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-9    | SOUTH-TSP-496    | 7/23/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |

ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567

ALS CANADA LTD Part of the ALS Group An ALS Limited Company



## Sample Receipt Confirmation

| Lab Sample ID | Client Sample ID      | Date Sampled       | Date Received      | Sample Due Date    | Priority Flag | Sample Type   |
|---------------|-----------------------|--------------------|--------------------|--------------------|---------------|---------------|
| L2752163-10   | SOUTH-TSP-497         | 7/29/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-11   | NORTHWEST-TSP-493     | 7/5/2023 12:00 AM  | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-12   | NORTHWEST-TSP-494     | 7/11/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-13   | NORTHWEST-TSP-495     | 7/17/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-14   | NORTHWEST-TSP-496     | 7/23/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-15   | NORTHWEST-TSP-497     | 7/29/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-16   | TSP-JULY TRIP BLANK   | 7/30/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | Hi Vol Filter |
| L2752163-17   | NORTH-PM2.5-493       | 7/5/2023 12:00 AM  | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-18   | NORTH-PM2.5-494       | 7/11/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-19   | NORTH-PM2.5-495       | 7/17/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-20   | NORTH-PM2.5-496       | 7/23/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-21   | NORTH-PM2.5-497       | 7/29/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-22   | SOUTH-PM2.5-493       | 7/5/2023 12:00 AM  | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-23   | SOUTH-PM2.5-494       | 7/11/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-24   | SOUTH-PM2.5-495       | 7/17/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-25   | SOUTH-PM2.5-496       | 7/23/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-26   | SOUTH-PM2.5-497       | 7/29/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-27   | NORTHWEST-PM2.5-493   | 7/5/2023 12:00 AM  | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-28   | NORTHWEST-PM2.5-494   | 7/11/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-29   | NORTHWEST-PM2.5-495   | 7/17/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-30   | NORTHWEST-PM2.5-496   | 7/23/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-31   | NORTHWEST-PM2.5-497   | 7/29/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-32   | PM2.5-JULY TRIP BLANK | 7/30/2023 12:00 AM | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               | 47mm Filter   |
| L2752163-33   | SUBLET TO BV          |                    | 8/10/2023 11:40 AM | 8/31/2023 11:00 PM |               |               |





## Sample Receipt Confirmation

**Analysis Requested:**

|                     | Air volume (m3) | Air volume (m3) | Metals on High Volume Filter by ICPMS | Particulate on High Volume Filter | PM via Gravimetric Analysis | Sample Handling and Disposal Fee | Tracking of out-going shipments. |
|---------------------|-----------------|-----------------|---------------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|
| NORTH-TSP-493       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTH-TSP-494       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTH-TSP-495       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTH-TSP-496       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTH-TSP-497       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| SOUTH-TSP-493       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| SOUTH-TSP-494       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| SOUTH-TSP-495       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| SOUTH-TSP-496       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| SOUTH-TSP-497       | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTHWEST-TSP-493   | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTHWEST-TSP-494   | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTHWEST-TSP-495   | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTHWEST-TSP-496   | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTHWEST-TSP-497   | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| TSP-JULY TRIP BLANK | X               |                 | X                                     | X                                 |                             | X                                |                                  |
| NORTH-PM2.5-493     |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTH-PM2.5-494     |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTH-PM2.5-495     |                 | X               |                                       |                                   | X                           | X                                |                                  |



## Sample Receipt Confirmation

**Analysis Requested:**

|                       | Air volume (m3) | Air volume (m3) | Metals on High Volume Filter by ICPMS | Particulate on High Volume Filter | PM via Gravimetric Analysis | Sample Handling and Disposal Fee | Tracking of out-going shipments. |
|-----------------------|-----------------|-----------------|---------------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------------|
| NORTH-PM2.5-496       |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTH-PM2.5-497       |                 | X               |                                       |                                   | X                           | X                                |                                  |
| SOUTH-PM2.5-493       |                 | X               |                                       |                                   | X                           | X                                |                                  |
| SOUTH-PM2.5-494       |                 | X               |                                       |                                   | X                           | X                                |                                  |
| SOUTH-PM2.5-495       |                 | X               |                                       |                                   | X                           | X                                |                                  |
| SOUTH-PM2.5-496       |                 | X               |                                       |                                   | X                           | X                                |                                  |
| SOUTH-PM2.5-497       |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTHWEST-PM2.5-493   |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTHWEST-PM2.5-494   |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTHWEST-PM2.5-495   |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTHWEST-PM2.5-496   |                 | X               |                                       |                                   | X                           | X                                |                                  |
| NORTHWEST-PM2.5-497   |                 | X               |                                       |                                   | X                           | X                                |                                  |
| PM2.5-JULY TRIP BLANK |                 | X               |                                       |                                   | X                           | X                                |                                  |
| SUBLET TO BV          |                 |                 |                                       |                                   |                             | X                                | X                                |



## Sample Receipt Confirmation

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**Sample Disposal Information:**

Where possible, ALS will store samples for the following durations, measured from date of sample submission: 45 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.

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**ALS Group strives to deliver on-time results to our clients at all times. However, there are times when due to capacity issues or other unforeseen circumstances we are unable to meet our expected turnaround times. The information above is related to a recent workorder you have submitted to our laboratory. In the event that you have an inquiry, please refer to the Lab Work Order # L2752163 when calling your Account Manager.**

**ALS Group appreciates your business. Thank you for the opportunity to work with you.**

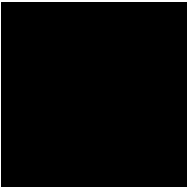


L2752163-COFC



Chain of Custody / Analytical Request Form
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

Report Form with sections: Report To, Company, Address, Phone, Email, Invoice To, Client/Project Information, Service Requested, Analysis Request, Lab Work Order #, Sample Identification, Date, Time, Sample Type, TSP and Metals, Dustfall Incl. volatile, Hazardous? Provide Data Highly Contaminated?, Number of Containers, Special Instructions / Regulations / Hazardous Details, Released by, Date, Time, Received by, Date, Time, Temperature, Verified by, Date, Time, Observations.



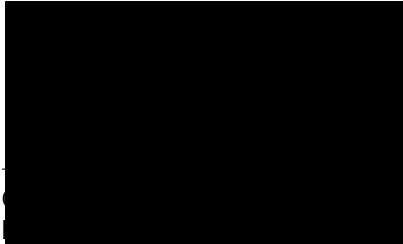
New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 07-SEP-23  
Report Date: 27-SEP-23 14:09 (MT)  
Version: FINAL

Client Phone: 807-234-8200


# Certificate of Analysis

Lab Work Order #: L2752568  
Project P.O. #: 4700001830  
Job Reference:  
C of C Numbers:  
Legal Site Desc:



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ADDRESS: 1435 Noriohn Court, Unit 1, Burlington, ON, L7L 0F6, Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752568-1 NORTH-TSP-498<br>Sampled By: Client on 04-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 51800  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 86.0   |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 288    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 8.8    |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 22.4   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-2 NORTH-TSP-499<br>Sampled By: Client on 10-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 8500   |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 77.0   |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 198    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 5.4    |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 8.8    |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-3 NORTH-TSP-500<br>Sampled By: Client on 16-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 54600  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 56.7   |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 558    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 24.9   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 30.2   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752568-4 NORTH-TSP-501<br>Sampled By: Client on 22-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 25200  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 60.3   |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 168    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 7.5    |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 17.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-5 NORTH-TSP-502<br>Sampled By: Client on 28-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 38100  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 101    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 219    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 11.0   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 15.5   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-6 SOUTH-TSP-498<br>Sampled By: Client on 04-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 148000 |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | 7.2    |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 137    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 2920   |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 60.8   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | 4.6    |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | 5.5    |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 24.7   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752568-7 SOUTH-TSP-499<br>Sampled By: Client on 10-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 49200  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 148    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 761    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 37.3   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 33.7   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-8 SOUTH-TSP-500<br>Sampled By: Client on 16-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 48200  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 117    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 436    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 19.1   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 19.3   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-9 SOUTH-TSP-501<br>Sampled By: Client on 22-AUG-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 26000  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)  | 99.9   |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)  | 171    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)   | 7.0    |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)  | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)  | 12.5   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752568-10 SOUTH-TSP-502<br>Sampled By: Client on 28-AUG-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 46400  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)   | 143    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)   | 500    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)  | 21.3   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)   | 18.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-11 NORTHWEST-TSP-498<br>Sampled By: Client on 04-AUG-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 106000 |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)   | 10.7   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)   | 220    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)   | 2250   |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)  | 62.6   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)   | 5.7    |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)   | 39.3   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-12 NORTHWEST-TSP-499<br>Sampled By: Client on 10-AUG-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 31500  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)   | 248    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)   | 824    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)  | 24.4   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)   | 16.2   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752568-13 NORTHWEST-TSP-500<br>Sampled By: Client on 16-AUG-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 62900  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)   | 152    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)   | 932    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)  | 39.4   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)   | 26.8   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-14 NORTHWEST-TSP-501<br>Sampled By: Client on 22-AUG-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 71400  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)   | 5.6    |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)   | 114    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)   | 1290   |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)  | 51.3   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)   | 4.2    |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)   | 38.5   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-15 NORTHWEST-TSP-502<br>Sampled By: Client on 28-AUG-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 41200  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)   | 329    |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)   | 393    |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)  | 16.7   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)   | 17.3   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752568-16 TSP-AUGUST TRIP BLANK<br>Sampled By: Client on 05-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 07-SEP-23 | R5968058 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Copper (Cu)   | <4.0   |            | 4.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Iron (Fe)   | 24     |            | 20   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Manganese (Mn)  | <1.0   |            | 1.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Selenium (Se)   | <10    |            | 10   | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| Zinc (Zn)   | <5.0   |            | 5.0  | ug    | 25-SEP-23 | 26-SEP-23 | R5968240 |
| L2752568-17 NORTH-PM2.5-498<br>Sampled By: Client on 04-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 462    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-18 NORTH-PM2.5-499<br>Sampled By: Client on 10-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 24     |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-19 NORTH-PM2.5-500<br>Sampled By: Client on 16-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 228    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-20 NORTH-PM2.5-501<br>Sampled By: Client on 22-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 161    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-21 NORTH-PM2.5-502<br>Sampled By: Client on 28-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 222    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-22 SOUTH-PM2.5-498<br>Sampled By: Client on 04-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 510    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-23 SOUTH-PM2.5-499<br>Sampled By: Client on 10-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                              |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752568-23 SOUTH-PM2.5-499<br>Sampled By: Client on 10-AUG-23<br>Matrix: 47mm Filter<br>Total particulate  | 19     |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-24 SOUTH-PM2.5-500<br>Sampled By: Client on 16-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 237    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-25 SOUTH-PM2.5-501<br>Sampled By: Client on 22-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 154    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-26 SOUTH-PM2.5-502<br>Sampled By: Client on 28-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 255    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-27 NORTHWEST-PM2.5-498<br>Sampled By: Client on 04-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 497    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-28 NORTHWEST-PM2.5-499<br>Sampled By: Client on 10-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 25     |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-29 NORTHWEST-PM2.5-500<br>Sampled By: Client on 16-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 272    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-30 NORTHWEST-PM2.5-501<br>Sampled By: Client on 22-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 191    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-31 NORTHWEST-PM2.5-502<br>Sampled By: Client on 28-AUG-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 256    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
| L2752568-32 PM2.5-AUGUST TRIP BLANK<br>Sampled By: Client on 05-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <15    |            | 15   | ug    |           | 07-SEP-23 | R5968059 |
|   |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample  
mg/kg wwt - milligrams per kilogram based on wet weight of sample  
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight  
mg/L - unit of concentration based on volume, parts per million.  
< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

# Quality Control Report

Workorder: L2752568

Report Date: 27-SEP-23

Page 1 of 3

Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 |                   |        |           |       |     |        |           |
|                        | <b>Filter</b>   |                   |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5968240</b> |                   |        |           |       |     |        |           |
| <b>WG3787007-3</b>     | <b>DUP</b>      | <b>L2752568-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Copper (Cu)            |                 | 86.0              | 87.8   |           | ug    | 2.1 | 20     | 26-SEP-23 |
| Iron (Fe)              |                 | 288               | 280    |           | ug    | 2.8 | 25     | 26-SEP-23 |
| Manganese (Mn)         |                 | 8.8               | 9.1    |           | ug    | 3.5 | 20     | 26-SEP-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 26-SEP-23 |
| Zinc (Zn)              |                 | 22.4              | 23.3   |           | ug    | 3.9 | 20     | 26-SEP-23 |
| <b>WG3787007-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 101.0  |           | %     |     | 80-120 | 26-SEP-23 |
| Cadmium (Cd)           |                 |                   | 103.8  |           | %     |     | 80-120 | 26-SEP-23 |
| Cobalt (Co)            |                 |                   | 99.9   |           | %     |     | 80-120 | 26-SEP-23 |
| Chromium (Cr)          |                 |                   | 96.9   |           | %     |     | 80-120 | 26-SEP-23 |
| Copper (Cu)            |                 |                   | 100.0  |           | %     |     | 80-120 | 26-SEP-23 |
| Iron (Fe)              |                 |                   | 100.0  |           | %     |     | 80-120 | 26-SEP-23 |
| Manganese (Mn)         |                 |                   | 97.8   |           | %     |     | 80-120 | 26-SEP-23 |
| Nickel (Ni)            |                 |                   | 98.3   |           | %     |     | 80-120 | 26-SEP-23 |
| Lead (Pb)              |                 |                   | 101.0  |           | %     |     | 80-120 | 26-SEP-23 |
| Selenium (Se)          |                 |                   | 103.0  |           | %     |     | 80-120 | 26-SEP-23 |
| Vanadium (V)           |                 |                   | 96.0   |           | %     |     | 80-120 | 26-SEP-23 |
| Zinc (Zn)              |                 |                   | 106.5  |           | %     |     | 80-120 | 26-SEP-23 |
| <b>WG3787007-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 26-SEP-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 26-SEP-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 26-SEP-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 26-SEP-23 |
| Copper (Cu)            |                 |                   | 1.1    | A         | ug    |     | 1      | 26-SEP-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 26-SEP-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 26-SEP-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 26-SEP-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 26-SEP-23 |

# Quality Control Report

Workorder: L2752568

Report Date: 27-SEP-23

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| Test   | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|--|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>   |                 |                    |        |           |       |     |        |           |
|  | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>   | <b>R5968240</b> |                    |        |           |       |     |        |           |
| <b>WG3787007-1</b>   | <b>MB</b>       |                    |        |           |       |     |        |           |
| Selenium (Se)  |                 |                    | <1.3   |           | ug    |     | 1.25   | 26-SEP-23 |
| Vanadium (V)   |                 |                    | <5.0   |           | ug    |     | 10     | 26-SEP-23 |
| Zinc (Zn)  |                 |                    | 4.9    | A         | ug    |     | 4.5    | 26-SEP-23 |
| <p>COMMENTS: Cu and Zn were observed in the method blank (MB) at a level above its LOR. Sample data within a factor of 5x this potential background contribution may be biased high. MOS 27-Sep-23</p> |                 |                    |        |           |       |     |        |           |
| <b>WG3787007-4</b>   | <b>MS</b>       | <b>L2752568-1</b>  |        |           |       |     |        |           |
| Arsenic (As)   |                 |                    | 98.4   |           | %     |     | 75-125 | 26-SEP-23 |
| Cadmium (Cd)   |                 |                    | 103.8  |           | %     |     | 75-125 | 26-SEP-23 |
| Cobalt (Co)  |                 |                    | 96.2   |           | %     |     | 75-125 | 26-SEP-23 |
| Chromium (Cr)  |                 |                    | 94.6   |           | %     |     | 75-125 | 26-SEP-23 |
| Copper (Cu)  |                 |                    | N/A    | MS-B      | %     |     | -      | 26-SEP-23 |
| Iron (Fe)  |                 |                    | N/A    | MS-B      | %     |     | -      | 26-SEP-23 |
| Manganese (Mn)   |                 |                    | 93.4   |           | %     |     | 75-125 | 26-SEP-23 |
| Nickel (Ni)  |                 |                    | 95.3   |           | %     |     | 75-125 | 26-SEP-23 |
| Lead (Pb)  |                 |                    | 95.3   |           | %     |     | 75-125 | 26-SEP-23 |
| Selenium (Se)  |                 |                    | 102.5  |           | %     |     | 75-125 | 26-SEP-23 |
| Vanadium (V)   |                 |                    | 93.2   |           | %     |     | 75-125 | 26-SEP-23 |
| Zinc (Zn)  |                 |                    | 97.1   |           | %     |     | 75-125 | 26-SEP-23 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|  | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>   | <b>R5968058</b> |                    |        |           |       |     |        |           |
| <b>WG3786993-2</b>   | <b>DUP</b>      | <b>L2752568-1</b>  |        |           |       |     |        |           |
| Total particulate  |                 | 51800              | 51800  |           | ug    | 0.0 | 5      | 07-SEP-23 |
| <b>WG3786993-1</b>   | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate  |                 |                    | <100   |           | ug    |     | 100    | 07-SEP-23 |
| <b>PART-M212 F-GRAV-BU</b>   |                 |                    |        |           |       |     |        |           |
|  | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>   | <b>R5968059</b> |                    |        |           |       |     |        |           |
| <b>WG3786994-2</b>   | <b>DUP</b>      | <b>L2752568-17</b> |        |           |       |     |        |           |
| Total particulate  |                 | 462                | 462    |           | ug    | 0.0 | 10     | 07-SEP-23 |
| <b>WG3786994-1</b>   | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate  |                 |                    | <15    |           | ug    |     | 15     | 07-SEP-23 |

# Quality Control Report

Workorder: L2752568

Report Date: 27-SEP-23

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description  |
|-----------|--|
| A         | Method Blank exceeds ALS DQO. Refer to narrative comments for further information.                 |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.






L2752568-COFC

Chain of Custody / Analytical Request Form  
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com



| <b>Report To</b>  |   |                    | <b>Report Format / Distribution</b> |                |                          | <b>Service Requested</b>                                   |              |       |       |   |   |                      |
|---|---|--------------------|-------------------------------------|----------------|--------------------------|--|--------------|-------|-------|---|---|----------------------|
| Company: New Gold Inc.  |   |                    |                                     |                |                          | Regular Service  |              |       |       |   |   |                      |
| Contact: Robyn Lloyd  |   |                    |                                     |                |                          | Rush Service (with prior consultation) - surcharge applies |              |       |       |   |   |                      |
| Address: 1361 Roen Road, Chapple, ON P0W 1A0  |   |                    | Email 1: robyn.lloyd@newgold.com    |                |                          | Other - Please contact ALS                                 |              |       |       |   |   |                      |
| Phone: 807-234-8200 ext. 8029 Fax:  |   |                    | Email 2:                            |                |                          | <b>Analysis Request</b>                                    |              |       |       |   |   |                      |
| Invoice To: Same as Report  |   |                    | <b>Client / Project Information</b> |                |                          |  |              |       |       |   |   |                      |
| Company:  |   |                    | Job #: Air Quality                  |                |                          |  |              |       |       |   |   |                      |
| Contact:  |   |                    | Location:                           |                |                          |  |              |       |       |   |   |                      |
| Address:  |   |                    | PO: 4500059107.                     |                |                          |  |              |       |       |   |   |                      |
| Phone: Fax:   |   |                    | Sampled by:                         |                |                          |  |              |       |       |   |   |                      |
| Lab Work Order #  |   |                    | ALS Contact:                        |                |                          |  |              |       |       |   |   |                      |
| Sample #  | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy) | Time<br>(hh:mm)                     | Sample Type    | TSP and Metals<br>Pm 2.5 | Dustfall Incl. volatile                                    |              |       |       |   | Hazardous? Provide Data<br>Highly Contaminated? | Number of Containers |
|   | NORTH-TSP-498   | 4-Aug-2023         | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | SOUTH-TSP-498   | 4-Aug-2023         | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTHWEST-TSP-498   | 4-Aug-2023         | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTH-TSP-499   | 10-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | SOUTH-TSP-499   | 10-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTHWEST-TSP-499   | 10-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTH-TSP-500   | 16-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | SOUTH-TSP-500   | 16-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTHWEST-TSP-500   | 16-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTH-TSP-501   | 22-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | SOUTH-TSP-501   | 22-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTHWEST-TSP-501   | 22-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTH-TSP-502   | 28-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | SOUTH-TSP-502   | 28-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTHWEST-TSP-502   | 28-Aug-2023        | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | TRIP BLANK - July TSP   | 5-Sep-2023         | 12:00                               | Air            | X                        |  |              |       |       |   |   |                      |
|   | NORTH-PM2.5-498   | 4-Aug-2023         | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | SOUTH-PM2.5-498   | 4-Aug-2023         | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTHWEST-PM2.5-498   | 4-Aug-2023         | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTH-PM2.5-499   | 10-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | SOUTH-PM2.5-499   | 10-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTHWEST-PM2.5-499   | 10-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTH-PM2.5-500   | 16-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | SOUTH-PM2.5-500   | 16-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTHWEST-PM2.5-500   | 16-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTH-PM2.5-501   | 22-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | SOUTH-PM2.5-501   | 22-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTHWEST-PM2.5-501   | 22-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTH-PM2.5-502   | 28-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | SOUTH-PM2.5-502   | 28-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | NORTHWEST-PM2.5-502   | 28-Aug-2023        | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | TRIP BLANK - JULY PM2.5   | 5-Sep-2023         | 12:00                               | Air            | X                        | X  |              |       |       |   |   |                      |
|   | Dustfall- Northwest   | 29-Aug-2023        | 12:00                               | Air            |                          | X  |              |       |       |   |   |                      |
|   | Dustfall - Trip Blank   | 29-Aug-2023        | 12:00                               | Air            |                          | X  |              |       |       |   |   |                      |
|   | Dustfall - North  | 29-Aug-2023        | 12:00                               | Air            |                          | X  |              |       |       |   |   |                      |
|   | Dustfall - South  | 29-Aug-2023        | 12:00                               | Air            |                          | X  |              |       |       |   |   |                      |
| Special Instructions / Regulations / Hazardous Details  |   |                    |                                     |                |                          |  |              |       |       |   |   |                      |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |   |                    |                                     |                |                          |  |              |       |       |   |   |                      |
| Released by:  | Date (dd-mm-yy)   | Time (hh:mm)       | Received by:                        | Date:          | Time:                    | Temperature:   | Verified by: | Date: | Time: | Observations:<br>Yes / No ?<br>If Yes add SIF |   |                      |
|   |   |                    | ARLOW<br>BUNTON                     | 7-Sept<br>2023 | 12:00                    | 22.7<br>°C   |              |       |       |   |   |                      |



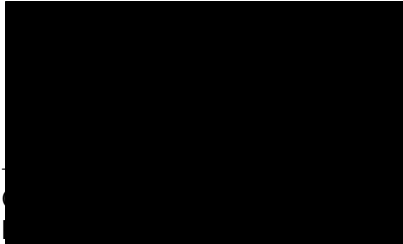
New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 04-OCT-23  
Report Date: 02-NOV-23 13:06 (MT)  
Version: FINAL

Client Phone: 807-234-8200


# Certificate of Analysis

Lab Work Order #: L2752968  
Project P.O. #: 4700001830  
Job Reference:  
C of C Numbers:  
Legal Site Desc:



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ADDRESS: 1435 Noriohn Court, Unit 1, Burlington, ON, L7L 0F6, Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752968-1 NORTH-TSP-503<br>Sampled By: Client on 03-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 92700  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 101    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 914    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 64.8   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 32.8   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-2 NORTH-TSP-504<br>Sampled By: Client on 09-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 29400  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 99.0   |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 149    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 5.8    |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 9.6    |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-3 NORTH-TSP-505<br>Sampled By: Client on 15-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 48400  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 165    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 626    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 30.6   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | 4.5    |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 43.3   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752968-4 NORTH-TSP-506<br>Sampled By: Client on 21-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 44800  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 149    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 232    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 10.5   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 13.2   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-5 NORTH-TSP-507<br>Sampled By: Client on 27-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 18100  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 144    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 171    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 4.2    |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 8.3    |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-6 SOUTH-TSP-503<br>Sampled By: Client on 03-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 136000 |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | 6.1    |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 111    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 2400   |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 122    |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | 4.3    |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | 5.5    |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 60.3   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752968-7 SOUTH-TSP-504<br>Sampled By: Client on 09-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 79200  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 132    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 1240   |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 47.3   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 42.8   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-8 SOUTH-TSP-505<br>Sampled By: Client on 15-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 33100  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 87.3   |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 563    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 18.9   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 13.8   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-9 SOUTH-TSP-506<br>Sampled By: Client on 21-SEP-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 96100  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | 165    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 1370   |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | 53.6   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | 38.4   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752968-10 SOUTH-TSP-507<br>Sampled By: Client on 27-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 20600  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)   | 103    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)   | 260    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)  | 5.9    |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)   | 8.0    |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-11 NORTHWEST-TSP-503<br>Sampled By: Client on 03-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 84000  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)   | 291    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)   | 761    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)  | 58.5   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)   | 29.8   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-12 NORTHWEST-TSP-504<br>Sampled By: Client on 09-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 33000  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)   | 258    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)   | 249    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)  | 7.8    |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)   | 11.2   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2752968-13 NORTHWEST-TSP-505<br>Sampled By: Client on 15-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 31900  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)   | 585    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)   | 366    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)  | 14.2   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)   | 13.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-14 NORTHWEST-TSP-506<br>Sampled By: Client on 21-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 57700  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)   | 270    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)   | 436    |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)  | 18.1   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)   | 18.5   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-15 NORTHWEST-TSP-507<br>Sampled By: Client on 27-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 80700  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)   | 6.7    |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)   | 180    |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)   | 1590   |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)  | 53.6   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)   | 3.0    |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)   | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)   | 32.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752968-16 TSP-TRIP BLANK-SEPTEMBER<br>Sampled By: Client on 30-SEP-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 18-OCT-23 | R5969557 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Copper (Cu)  | <4.0   |            | 4.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Iron (Fe)  | 27     |            | 20   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Manganese (Mn)   | <1.0   |            | 1.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Selenium (Se)  | <10    |            | 10   | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| Zinc (Zn)  | <5.0   |            | 5.0  | ug    | 24-OCT-23 | 24-OCT-23 | R5970025 |
| L2752968-17 NORTH-PM2.5-503<br>Sampled By: Client on 03-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 286    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-18 NORTH-PM2.5-504<br>Sampled By: Client on 09-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 34     |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-19 NORTH-PM2.5-505<br>Sampled By: Client on 15-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 92     |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-20 NORTH-PM2.5-506<br>Sampled By: Client on 21-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 219    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-21 NORTH-PM2.5-507<br>Sampled By: Client on 27-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 35     |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-22 SOUTH-PM2.5-503<br>Sampled By: Client on 03-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 310    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-23 SOUTH-PM2.5-504<br>Sampled By: Client on 09-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                                 |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



# ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2752968-23 SOUTH-PM2.5-504<br>Sampled By: Client on 09-SEP-23<br>Matrix: 47mm Filter<br>Total particulate   | 130    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-24 SOUTH-PM2.5-505<br>Sampled By: Client on 15-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 143    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-25 SOUTH-PM2.5-506<br>Sampled By: Client on 21-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 337    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-26 SOUTH-PM2.5-507<br>Sampled By: Client on 27-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 37     |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-27 NORTHWEST-PM2.5-503<br>Sampled By: Client on 03-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 229    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-28 NORTHWEST-PM2.5-504<br>Sampled By: Client on 09-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 167    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-29 NORTHWEST-PM2.5-505<br>Sampled By: Client on 15-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 100    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-30 NORTHWEST-PM2.5-506<br>Sampled By: Client on 21-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 245    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-31 NORTHWEST-PM2.5-507<br>Sampled By: Client on 27-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 255    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
| L2752968-32 PM2.5-TRIP BLANK-SEPTEMBER<br>Sampled By: Client on 30-SEP-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <15    |            | 15   | ug    |           | 02-NOV-23 | R5970377 |
|  |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

# Quality Control Report

Workorder: L2752968

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5970025</b> |                   |        |           |       |     |        |           |
| <b>WG3787351-3</b>     | <b>DUP</b>      | <b>L2752968-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Copper (Cu)            |                 | 101               | 114    |           | ug    | 13  | 20     | 24-OCT-23 |
| Iron (Fe)              |                 | 914               | 1040   |           | ug    | 13  | 25     | 24-OCT-23 |
| Manganese (Mn)         |                 | 64.8              | 78.3   |           | ug    | 19  | 20     | 24-OCT-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 24-OCT-23 |
| Zinc (Zn)              |                 | 32.8              | 37.0   |           | ug    | 12  | 20     | 24-OCT-23 |
| <b>WG3787351-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 105.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Cadmium (Cd)           |                 |                   | 102.2  |           | %     |     | 80-120 | 24-OCT-23 |
| Cobalt (Co)            |                 |                   | 102.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Chromium (Cr)          |                 |                   | 102.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Copper (Cu)            |                 |                   | 102.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Iron (Fe)              |                 |                   | 102.6  |           | %     |     | 80-120 | 24-OCT-23 |
| Manganese (Mn)         |                 |                   | 100.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Nickel (Ni)            |                 |                   | 101.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Lead (Pb)              |                 |                   | 94.9   |           | %     |     | 80-120 | 24-OCT-23 |
| Selenium (Se)          |                 |                   | 101.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Vanadium (V)           |                 |                   | 100.0  |           | %     |     | 80-120 | 24-OCT-23 |
| Zinc (Zn)              |                 |                   | 102.0  |           | %     |     | 80-120 | 24-OCT-23 |
| <b>WG3787351-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 24-OCT-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 24-OCT-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 24-OCT-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 24-OCT-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 24-OCT-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 24-OCT-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 24-OCT-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 24-OCT-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 24-OCT-23 |

# Quality Control Report

Workorder: L2752968

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| Test                       | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>     |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5970025</b> |                    |        |           |       |     |        |           |
| <b>WG3787351-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Selenium (Se)              |                 |                    | <1.3   |           | ug    |     | 1.25   | 24-OCT-23 |
| Vanadium (V)               |                 |                    | <5.0   |           | ug    |     | 10     | 24-OCT-23 |
| Zinc (Zn)                  |                 |                    | <4.5   |           | ug    |     | 4.5    | 24-OCT-23 |
| <b>WG3787351-4</b>         | <b>MS</b>       | <b>L2752968-1</b>  |        |           |       |     |        |           |
| Arsenic (As)               |                 |                    | 103.5  |           | %     |     | 75-125 | 24-OCT-23 |
| Cadmium (Cd)               |                 |                    | 101.3  |           | %     |     | 75-125 | 24-OCT-23 |
| Cobalt (Co)                |                 |                    | 98.4   |           | %     |     | 75-125 | 24-OCT-23 |
| Chromium (Cr)              |                 |                    | 100.4  |           | %     |     | 75-125 | 24-OCT-23 |
| Copper (Cu)                |                 |                    | N/A    | MS-B      | %     |     | -      | 24-OCT-23 |
| Iron (Fe)                  |                 |                    | N/A    | MS-B      | %     |     | -      | 24-OCT-23 |
| Manganese (Mn)             |                 |                    | N/A    | MS-B      | %     |     | -      | 24-OCT-23 |
| Nickel (Ni)                |                 |                    | 100.7  |           | %     |     | 75-125 | 24-OCT-23 |
| Lead (Pb)                  |                 |                    | 99.7   |           | %     |     | 75-125 | 24-OCT-23 |
| Selenium (Se)              |                 |                    | 103.0  |           | %     |     | 75-125 | 24-OCT-23 |
| Vanadium (V)               |                 |                    | 97.7   |           | %     |     | 75-125 | 24-OCT-23 |
| Zinc (Zn)                  |                 |                    | 104.1  |           | %     |     | 75-125 | 24-OCT-23 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5969557</b> |                    |        |           |       |     |        |           |
| <b>WG3787253-6</b>         | <b>DUP</b>      | <b>L2752968-1</b>  |        |           |       |     |        |           |
| Total particulate          |                 | 92700              | 92600  |           | ug    | 0.1 | 5      | 18-OCT-23 |
| <b>WG3787253-4</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <100   |           | ug    |     | 100    | 18-OCT-23 |
| <b>PART-M212 F-GRAV-BU</b> |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5970377</b> |                    |        |           |       |     |        |           |
| <b>WG3787451-2</b>         | <b>DUP</b>      | <b>L2752968-17</b> |        |           |       |     |        |           |
| Total particulate          |                 | 286                | 286    |           | ug    | 0.0 | 10     | 02-NOV-23 |
| <b>WG3787451-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <15    |           | ug    |     | 15     | 02-NOV-23 |

# Quality Control Report

Workorder: L2752968

Report Date: 02-NOV-23

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

---

| Qualifier | Description  |
|-----------|--|
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2752968-COFC



Chain of Custody / Analytical Request Form
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

Report To: New Gold Inc. Report Format / Distribution: Service Requested: Regular Service
Company: Robyn Lloyd
Address: 1361 Roen Road, Chapple, ON P0W 1A0
Phone: 807-234-8200 ext. 8029 Fax:
Invoice To: Same as Report
Client / Project Information: Job #: Air Quality
Address: PO: 4500059107
Lab Work Order #:
Sample # Sample Identification (This description will appear on the report) Date (dd-mm-yy) Time (hh:mm) Sample Type TSP and Metals Pm 2.5 Dustfall incl. volatile
NORTH-TSP-503 3-Sep-2023 12:00 Air X
SOUTH-TSP-503 3-Sep-2023 12:00 Air X
NORTHWEST-TSP-503 3-Sep-2023 12:00 Air X
NORTH-TSP-504 9-Sep-2023 12:00 Air X
SOUTH-TSP-504 9-Sep-2023 12:00 Air X
NORTHWEST-TSP-504 9-Sep-2023 12:00 Air X
NORTH-TSP-505 15-Sep-2023 12:00 Air X
SOUTH-TSP-505 15-Sep-2023 12:00 Air X
NORTHWEST-TSP-505 15-Sep-2023 12:00 Air X
NORTH-TSP-506 21-Sep-2023 12:00 Air X
SOUTH-TSP-506 21-Sep-2023 12:00 Air X
NORTHWEST-TSP-506 21-Sep-2023 12:00 Air X
NORTH-TSP-507 27-Sep-2023 12:00 Air X
SOUTH-TSP-507 27-Sep-2023 12:00 Air X
NORTHWEST-TSP-507 27-Sep-2023 12:00 Air X
TRIP BLANK - September TSP 30-Sep-2023 12:00 Air X
NORTH-PM2.5-503 3-Sep-2023 12:00 Air X
SOUTH-PM2.5-503 3-Sep-2023 12:00 Air X
NORTHWEST-PM2.5-503 3-Sep-2023 12:00 Air X
NORTH-PM2.5-504 9-Sep-2023 12:00 Air X
SOUTH-PM2.5-504 9-Sep-2023 12:00 Air X
NORTHWEST-PM2.5-504 9-Sep-2023 12:00 Air X
NORTH-PM2.5-505 15-Sep-2023 12:00 Air X
SOUTH-PM2.5-505 15-Sep-2023 12:00 Air X
NORTHWEST-PM2.5-505 15-Sep-2023 12:00 Air X
NORTH-PM2.5-506 21-Sep-2023 12:00 Air X
SOUTH-PM2.5-506 21-Sep-2023 12:00 Air X
NORTHWEST-PM2.5-506 21-Sep-2023 12:00 Air X
NORTH-PM2.5-507 27-Sep-2023 12:00 Air X
SOUTH-PM2.5-507 27-Sep-2023 12:00 Air X
NORTHWEST-PM2.5-507 27-Sep-2023 12:00 Air X
TRIP BLANK - September- PM2.5 30-Sep-2023 12:00 Air X
Dustfall - Northwest 29-Sep-2023 12:00 Air X
Dustfall - Trip Blank 29-Sep-2023 12:00 Air X
Dustfall - North 29-Sep-2023 12:00 Air X
Dustfall - South 29-Sep-2023 12:00 Air X

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

Released by: Received by: AARAW BULTON Date: 4-Oct-2023 Time: 12:00 Temperature: 22.0 °C Verified by: Date: Time: Observation: Yes/No (X) If Yes add SIF

# **APPENDIX D: HI-VOL & PQ200 SAMPLER CALIBRATION SHEETS**

Audited Instrument:

Station: North Make/Model: BGI PQ200 S/N: 79407

Date: 2023/07/30 Time: 8:30 deltaCal® S/N: 172157

Tech:

Leak Test

Pass X Fail \_\_\_\_\_

Flow Rate – Lpm

Sampler: 16.7

deltaCal®: 16.3

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 2.94$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

Ambient Temp. - °C

Sampler: 17.2

deltaCal®: 17.7

0.5  
2.89%

Allowed diff. = ±2°C; Pass X Fail \_\_\_\_\_

Barometric Pressure – mm of Hg

Sampler: 731

deltaCal®: 732.5

1.5  
0.20%

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

Filter Temp. °C

Sampler: 15.4

deltaCal®: 17.3

1.9

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_



**Audited Instrument:**

Station: Northwest Make/Model: BGI PR200 S/N: 1752

Date: 2023/07/30 Time: 10:45 deltaCal® S/N: 172457

Tech:

**Leak Test**

Pass  Fail

**Flow Rate – Lpm**

Sampler: 16.70

deltaCal®: 16.82

0.71

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass  Fail

**Ambient Temp. - °C**

Sampler: 22.4

deltaCal®: 23.5

1.1

Allowed diff. = ±2°C; Pass  Fail

**Barometric Pressure – mm of Hg**

Sampler: 732

deltaCal®: 734

2

Allowed diff. = ±10 mm; Pass  Fail

**Filter Temp. °C**

Sampler: 24.3

deltaCal®: 23.5

0.8

Allowed diff. = ± 2°C; Pass  Fail

**Audited Instrument:**

Station: South Make/Model: BGI PQ200 S/N: 1751

Date: 2023-08-03 Time: 1315 deltaCal®S/N: \_\_\_\_\_

Tech: RC / HJ / KL / JA

**Leak Test**

Pass X Fail \_\_\_\_\_

Pump failed to turn on initially. Cleaned out debris from tygon hose. Motor for pump failed when connected to battery directly. Motor replacement solved all issues.

**Flow Rate – Lpm**

Sampler: 16.72

deltaCal®: 16.85

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.77$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 26.5

deltaCal®: 26.1

Allowed diff. = ±2°C; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 727

deltaCal®: 730

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 26.1

deltaCal®: 26.3

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: South Make/Model: BGI PQ200 S/N: 1751

Date: 2023 08 29 Time: 11:55 am deltaCal®S/N: 172457

Tech:

**Leak Test**

Pass passed Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.72

deltaCal®: 16.89

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass passed Fail \_\_\_\_\_  
1%

**Ambient Temp. - °C**

Sampler: 21.2

deltaCal®: 21.2

Allowed diff. = ±2°C; Pass passed Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 727

deltaCal®: 730

Allowed diff. = ±10 mm; Pass passed Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 23.1

deltaCal®: 23.5

Allowed diff. = ± 2°C; Pass passed Fail \_\_\_\_\_

**Audited Instrument:**

Station: North Make/Model: BGI PQ200 S/N: 79407

Date: 2023 08 29 Time: 11:05 deltaCal® S/N: 172457

Tech: CC/EO

**Leak Test**

Pass Passed Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.7

deltaCal®: 16.58

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass Passed Fail \_\_\_\_\_  
0.72 %

**Ambient Temp. - °C**

Sampler: 19.5

deltaCal®: 20.0

Allowed diff. = ±2°C; Pass Passed Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 728

deltaCal®: 728.5

Allowed diff. = ±10 mm; Pass Passed Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 21.1

deltaCal®: 21.6

Allowed diff. = ± 2°C; Pass Passed Fail \_\_\_\_\_

**Audited Instrument:**

Station: North West Make/Model: BGI PQ200 S/N: 1752

Date: 2023 08 29 Time: 15:10 deltaCal® S/N: 172457

Tech:

**Leak Test**

Pass passed Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.72

deltaCal®: 16.71

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass passed Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 21.1

deltaCal®: 22.2

Allowed diff. = ±2°C; Pass passed Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 729

deltaCal®: 731.0

Allowed diff. = ±10 mm; Pass passed Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 23.2

deltaCal®: 22.3

Allowed diff. = ± 2°C; Pass \_\_\_\_\_ Fail \_\_\_\_\_

**Audited Instrument:**

Station: Northwest Make/Model: PQ200 S/N: 1752

Date: 2023 09 29 Time: 1512 deltaCal®S/N: 172457

Tech: Rc / HJ / SJ

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.67

deltaCal®: 16.73

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 0.36$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 16.2

deltaCal®: 17.3

Allowed diff. = ±2°C; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 725

deltaCal®: 726.5

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 16.2

deltaCal®: 17.3

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: South Make/Model: PQ200 S/N: 1751

Date: 2023-09-29 Time: 14:37 deltaCal® S/N: 172457

Tech:

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.70

deltaCal®: 16.97

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 1.59$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 16.4

deltaCal®: 16.8

Allowed diff. = ±2°C; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 723

deltaCal®: 720

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 16.4

deltaCal®: 16.7

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: North Make/Model: PQ200 S/N: 79407

Date: 2023-09-29 Time: 1015 deltaCal<sup>®</sup>/S/N: 172451

Tech: RL/HJ

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.7

deltaCal<sup>®</sup>: 16.52

% diff. =  $[(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 =$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 16.5

deltaCal<sup>®</sup>: 17.2

Allowed diff. = ±2°C; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 724

deltaCal<sup>®</sup>: 275.5

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

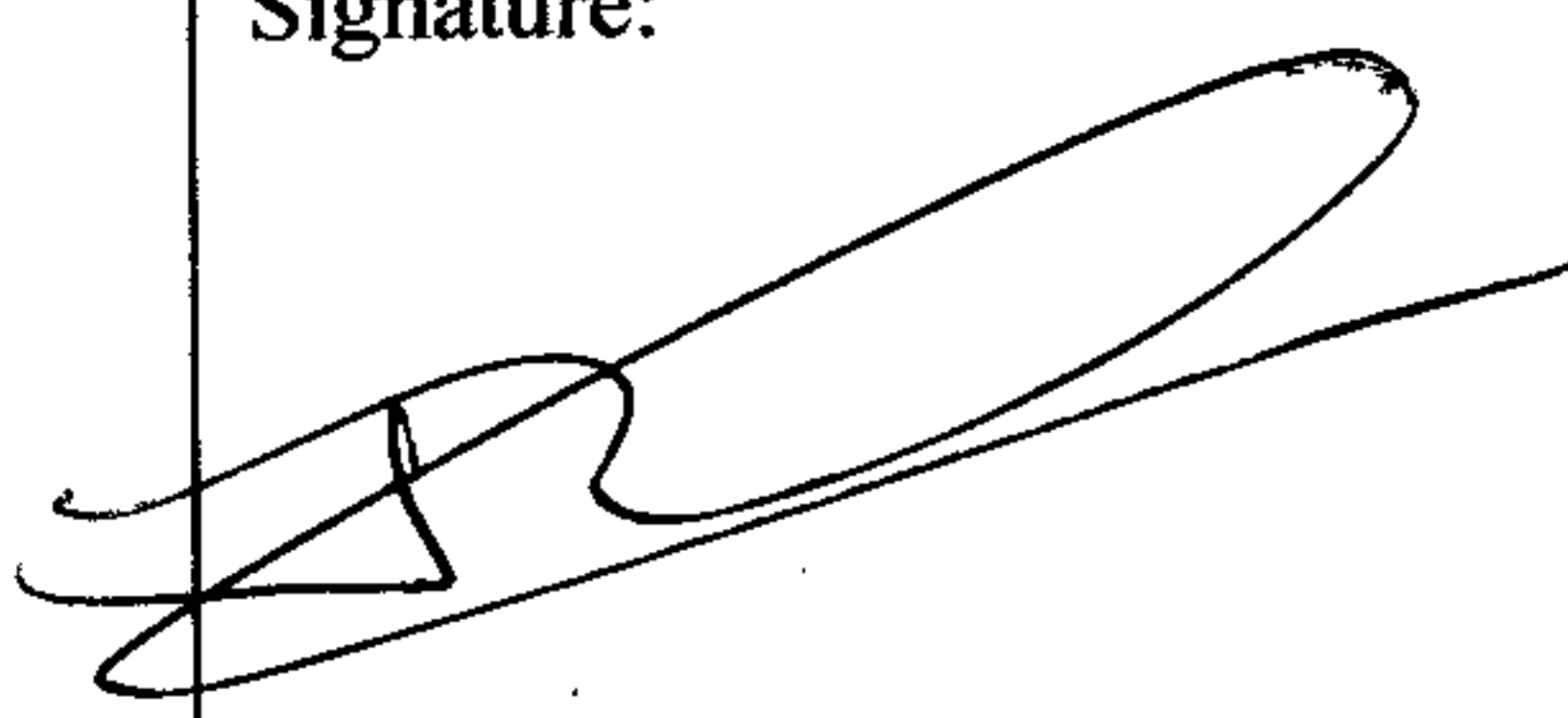
**Filter Temp. °C**

Sampler: 16.6

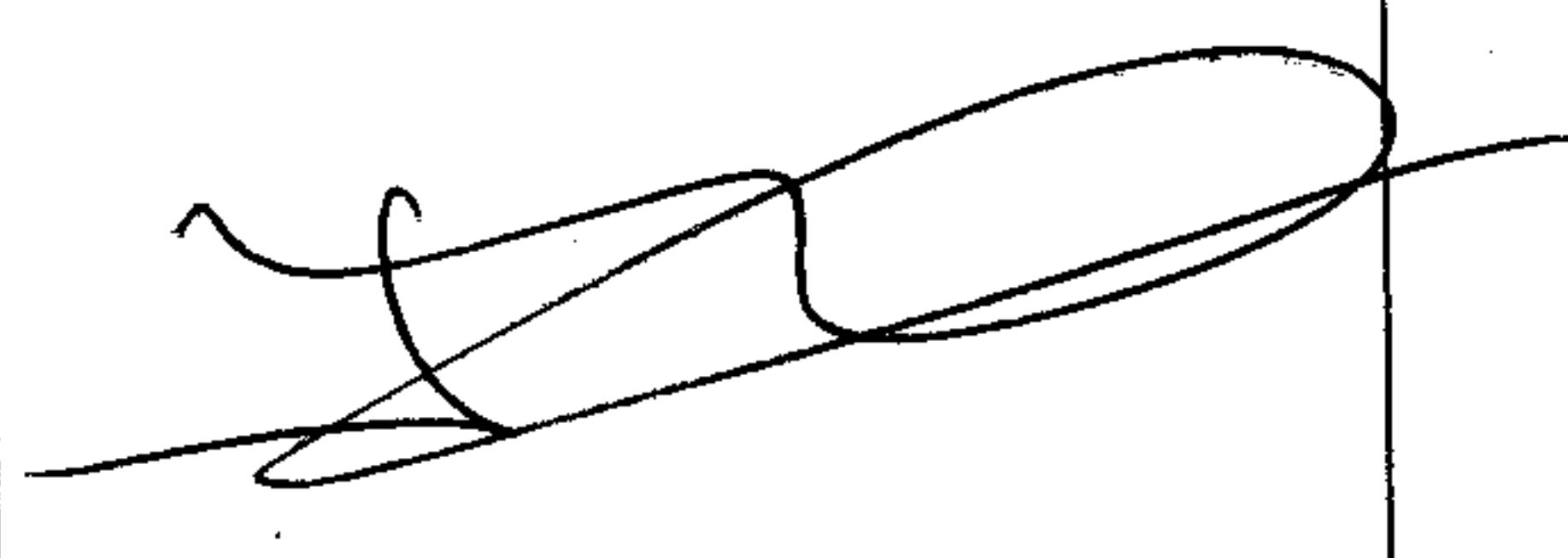

deltaCal<sup>®</sup>: 16.7

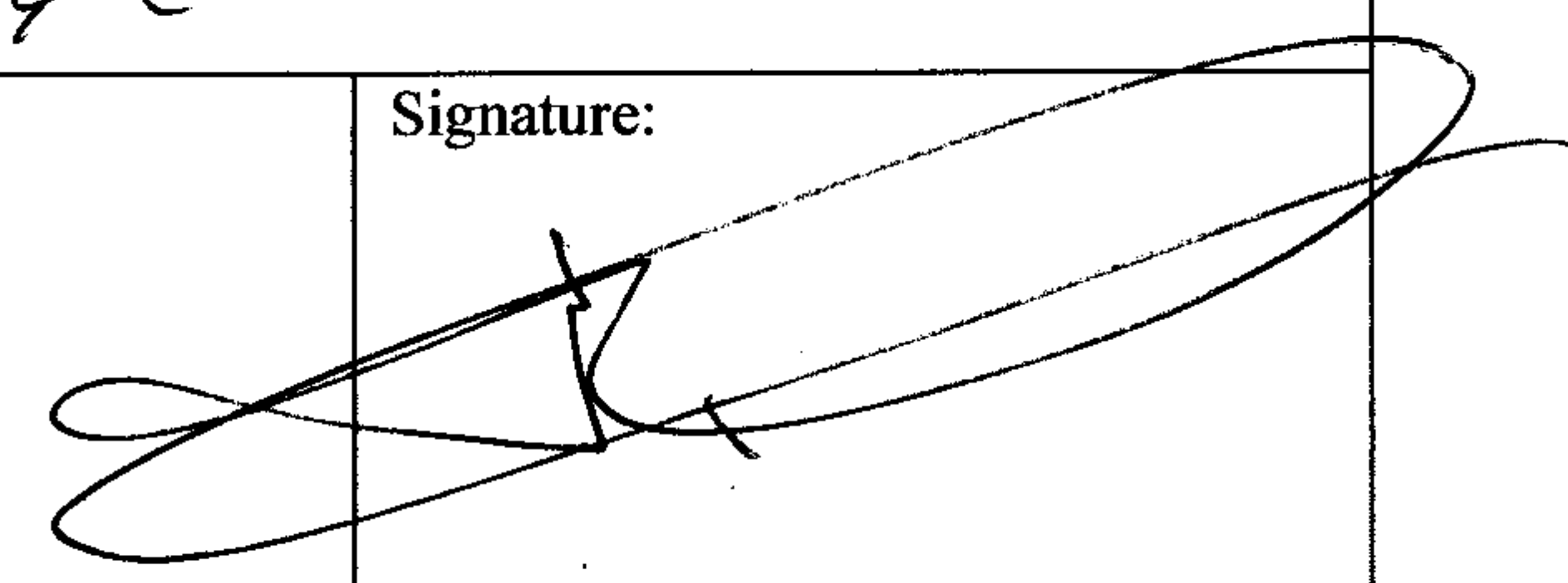
Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_



| Particulate Matter Performance Audit   |                                  |   |                            |
|--|----------------------------------|---|----------------------------|
| Site Name/Address: Tait Road Site- Str# 62054  |                                  |   |                            |
| City/Town: Chapple Municipality Ontario  |                                  |   |                            |
| Site ID #: 62054   |                                  | Operator/Representative: Newgold  |                            |
| Date (yr/mm/dd): 23/09/19  |                                  | Auditor: Jim Stachowich #1528   |                            |
| Calibrator make: BGI   |                                  | Instrumental serial #: 1751   | Instrument make: BGI Pa200 |
| Calibrator Serial No.  |                                  | Pollutant PM 2.5  |                            |
| Accuracy (GPS) +/- 10 meter  |                                  | Zone 15U  |                            |
| Easting 0426049  |                                  | Northing 5406995  |                            |
| +/- 10% Objective/Criteria Met   |                                  | Yes <input checked="" type="radio"/>  | No <input type="radio"/>   |
| Results  |                                  |   |                            |
| Calibration Orifice and Equation - Manometer   |                                  |   |                            |
| Calibration orifice number<br>TISCHTE-HVGV TC-5  | Manometer type:<br>TRI-CAL TISCH | Manometer S/N:<br>S/n 64-0198   |                            |
| S = slope of the calibration orifice Qamb 1.31943  |                                  |   |                            |
| I = intercept of the calibration orifice Qamb -0.01571   |                                  |   |                            |
| Ambient Temperature 16°C   |                                  | Ambient Pressure 721 mmHg   |                            |
| Audit Results  |                                  | Required flow   |                            |
| Manometer reading (in. of water)   |                                  | Hi-vol & PM   | 40 cfm                     |
| True flow calculated result:<br>$\sqrt{MR \times S + I}$ 16.9  |                                  | PAH   | 30 cfm                     |
| Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ 16.7 |                                  | Dioxins   | 8 cfm                      |
| Leak Test 16.7   |                                  | 47 mm   | 16.7 L/M                   |
| Temperature Correction = SQRT [298/(273+/-Ta)]   |                                  | Ta = AMBIENT TEMP °C  |                            |
| Comments/observations (also general station conditions and status of logbooks):                                |                                  |   |                            |
| C/K.M + Cool + 16°C  |                                  |   |                            |
| Action Required (Auditor):   |                                  | Signature:  |                            |
| No Action Required   |                                  |  |                            |
| Action Taken (Auditee):  |                                  | Signature:  |                            |
|  |                                  | Baleyn Hays   |                            |

| Particulate Matter Performance Audit   |                          |                                  |                                     |
|--|--------------------------|----------------------------------|-------------------------------------|
| Site Name/Address: Tait Road Site- Str# 62054  |                          |                                  |                                     |
| City/Town: Chapple Municipality Ontario  |                          |                                  |                                     |
| Site ID #: 62054   |                          | Operator/Representative: Newgold |                                     |
| Date (yr/mm/dd): 23/09/19  |                          | Auditor: Jim Stachowich #1528    |                                     |
| Calibrator make: TISCH   |                          | Instrumental serial #: TE-5007   | Instrument make: TISCH              |
| Calibrator Serial No.:   |                          | Pollutant TSP                    |                                     |
| Accuracy (GPS) +/- 10 meter  |                          | Zone 15U                         |                                     |
| Easting 0426049  |                          | Northing 5406995                 |                                     |
| +/- 10% Objective/Criteria Met   |                          | Yes <input type="radio"/>        | No <input checked="" type="radio"/> |
| Results  |                          |                                  |                                     |
| Calibration Orifice and Equation - Manometer   |                          |                                  |                                     |
| Calibration orifice number<br>TISCH TE-HVC-V   | Manometer type:<br>TISCH | Manometer S/N:<br>0196           |                                     |
| S = slope of the calibration orifice Qamb 1.31943  |                          |                                  |                                     |
| I = intercept of the calibration orifice Qamb -0.01571   |                          |                                  |                                     |
| Ambient Temperature: 16°C  |                          | Ambient Pressure: 728 mmHg       |                                     |
| Audit Results  |                          | Required flow                    |                                     |
| Manometer reading (in. of water)   |                          | Hi-vol & PM                      | 40 cfm                              |
| True flow calculated result:<br>$\sqrt{MR \times S + 1}$ 43  |                          | PAH                              | 30 cfm                              |
| Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ 40 |                          | Dioxins                          | 8 cfm                               |
| Leak Test: 40  |                          | 47 mm                            | 16.7 L/M                            |
| Temperature Correction = SQRT [298/(273+/-Ta)]   |                          | Ta = AMBIENT TEMP °C             |                                     |
| Comments/observations (also general station conditions and status of logbooks):                              |                          |                                  |                                     |
| Cool + Clean 16°C  |                          |                                  |                                     |
| Action Required (Auditor):   |                          | Signature:                       |                                     |
| [Signature]  |                          | [Signature]                      |                                     |
| Action Taken (Auditee):  |                          | Signature:                       |                                     |
|  |                          | [Signature]                      |                                     |

| Particulate Matter Performance Audit  |                       |   |                            |
|---|-----------------------|---|----------------------------|
| Site Name/Address: Gallinger Road Site- Stn# 62055  |                       |   |                            |
| City/Town: Chapple Municipality Ontario   |                       |   |                            |
| Site ID #: 62055  |                       | Operator/Representative: Newgold  |                            |
| Date (yr/mm/dd): 27/09/19   |                       | Auditor: Jim Stachowich #1528   |                            |
| Calibrator make: BGE  |                       | Instrumental serial #: 1752   | Instrument make: BGE PQ900 |
| Calibrator Serial No.   |                       | Pollutant PM 2.5  |                            |
| Accuracy (GPS) +/- 9 meter  |                       | Zone 15U  |                            |
| Easting 0431129   |                       | Northing 5410593  |                            |
| +/- 10% Objective/Criteria Met  |                       | Yes <input checked="" type="radio"/>  | No <input type="radio"/>   |
| Results   |                       |   |                            |
| Calibration Orifice and Equation - Manometer  |                       |   |                            |
| Calibration orifice number: HSCHE-HVC-V JC-5  | Manometer type: TISEM | Manometer S/N: 0496   |                            |
| S = slope of the calibration orifice Qamb 1.31943   |                       | I = intercept of the calibration orifice Qamb -0.01571                                |                            |
| Ambient Temperature: 14.9°C   |                       | Ambient Pressure: 721 mmHg  |                            |
| Audit Results   |                       | Required flow   |                            |
| Manometer reading (in. of water)  |                       | Hi-vol & PM   | 40 cfm                     |
| True flow calculated result:<br>$\sqrt{MR \times S + 1}$ 15.90 16.7                                       |                       | PAH   | 30 cfm                     |
| Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ |                       | Dioxins   | 8 cfm                      |
| Leak Test: 16.7   |                       | 47 mm   | 16.7 L/M                   |
| Temperature Correction = SQRT [298/(273+/-Ta)]  |                       | Ta = AMBIENT TEMP °C  |                            |
| Comments/observations (also general station conditions and status of logbooks):                           |                       |   |                            |
| Clean + Cool + 14°C   |                       |   |                            |
| Action Required (Auditor):  |                       | Signature:  |                            |
| No + 14°C   |                       |  |                            |
| Action Taken (Auditee):   |                       | Signature:  |                            |
|   |                       |  |                            |

| Particulate Matter Performance Audit  |  |   |                             |
|---|--|---|-----------------------------|
| Site Name/Address: Gallinger Road Site- Stn# 62055  |  |   |                             |
| City/Town: Chapple Municipality Ontario   |  |   |                             |
| Site ID #: 62055  |  | Operator/Representative: Newgold  |                             |
| Date (yr/mm/dd): 23/09/19   |  | Auditor: Jim Stachowich #1528   |                             |
| Calibrator make: TISCH  |  | Instrumental serial #: TE-5007 S/N 4085   | Instrument make: 3105 TISCH |
| Calibrator Serial No.   |  | Pollutant TSP   |                             |
| Accuracy (GPS) +/- 9 meter  |  | Zone 15U  |                             |
| Easting 0431129   |  | Northing 5410593  |                             |
| +/- 10% Objective/Criteria Met  |  | Yes <input checked="" type="radio"/>  | No <input type="radio"/>    |
| Results   |  |   |                             |
| Calibration Orifice and Equation - Manometer  |  |   |                             |
| Calibration orifice number<br>TISCH TE-HVC-V  |  | Manometer type: TISCH   | Manometer S/N: 0196         |
| S = slope of the calibration orifice Qamb 1.31943   |  |   |                             |
| I = intercept of the calibration orifice Qamb -0.01571  |  |   |                             |
| Ambient Temperature: 14.7°C   |  | Ambient Pressure: 755 mm Hg   |                             |
| Audit Results   |  | Required flow   |                             |
| Manometer reading (in. of water)  |  | Hi-vol & PM: 40 cfm   |                             |
| True flow calculated result:<br>$\sqrt{MR \times S + 1}$ 39 40 39   |  | PAH: 30 cfm   |                             |
| Percent error = $\frac{(\text{true flow value} - \text{required flow}) \times 100}{\text{required flow}}$ |  | Dioxins: 8 cfm  |                             |
| Leak Test: 40   |  | 47 mm: 16.7 L/M   |                             |
| Temperature Correction = $\text{SQRT} [298 / (273 + /- Ta)]$ Ta = AMBIENT TEMP °C                         |  |   |                             |
| Comments/observations (also general station conditions and status of logbooks):                           |  |   |                             |
| Clear + Cool + 14°C   |  |   |                             |
| Action Required (Auditor):  |  | Signature:  |                             |
| No M... ..  |  |  |                             |
| Action Taken (Auditee):   |  | Signature:  |                             |
|   |  | Rosalyn Floyd   |                             |

# **APPENDIX E: SAMPLE EDIT LOGS**

## APPENDIX E-1: TOTAL SUSPENDED PARTICULATE SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned  
Highway 600

Pollutant/Parameter: Total Suspended Particulate (TSP)

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: July 1, 2023

End Date: September 30, 2023

| # | Action         | Date    | Reason   |
|---|----------------|---------|--|
| 1 | Invalid sample | 15-Sept | Sample volume was above the maximum volume limit |

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: July 1, 2023

End Date: September 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |
|   |        |      |        |

Address: Rainy River Mine

Station Name: North (Gallinger Road)

Station Location: North of the Site at Gallinger Road

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: July 1, 2023

End Date: September 30, 2023

| # | Action         | Date   | Reason   |
|---|----------------|--------|--|
| 1 | Invalid sample | 22-Aug | Sample volume was below the lower volume limit |
| 2 | Invalid sample | 9-Sept | Sample volume was below the lower volume limit |



## APPENDIX E-2: RESPIRABLE PARTICULATE MATTER SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: July 1, 2023

End Date: September 30, 2023

| # | Action         | Date    | Reason   |
|---|----------------|---------|--|
| 1 | Invalid Sample | 29-July | Sample volume was below the lower volume limit |

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Gallinger Road Station

Station Location: North-east of the Site along Gallinger Road

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: July 1, 2023

End Date: September 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
| 1 |        |      |        |

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: July 1, 2023

End Date: September 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |

## APPENDIX E-3: DUSTFALL SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Dustfall

Measurement Instrument: Passive Sampler Jar

Start Date: July 1, 2023

End Date: September 30, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |

# **APPENDIX F: MECP AUDIT**

Ministry of the Environment  
435 James Street South.  
Suite 331  
Thunder Bay, ON P7E 6S7

Ministère de l'Environnement  
435, rue James sud  
Bureau 331  
Thunder Bay, ON P7E 6S7



Fax/télécopieur: (807) 475-1754  
Phone/ téléphone: (807) 475-1205

Northern Region Technical Support Section – Thunder Bay

September 21, 2023

Robyn Lloyd  
Environmental Technician

**New Gold Inc.**  
Rainy River Mine  
5967 Highway 11/71, P.O. Box 5  
Emo, Ontario, Canada, P0W 1E0  
T +1.807.234.8200 ext. 8029  
M +1.705.930.7112

Dear Ms. Lloyd:

Re: Air Monitoring Station Audit – Non-Continuous Monitors

On September 19<sup>th</sup> 2023 your company's stations [2<sup>nd</sup> semi] were audited. Attached is a copy of the Audit record, below is a summary of the results:

1. Tait Road (Station #62054)

| Sampler Type  | Sampler S/N | % Error   | Criteria Met  |
|---------------|-------------|-----------|---------------|
| PQ200 PM2.5   | 1751        | 1.2% High | Yes           |
| TSP Tisch     | 4118        | 7.5% High | Yes           |
| Dustfall Jars | N/A         | N/A       | Not Conducted |

2. Gallinger Road (Station #62055)

| Sampler Type  | Sampler S/N | % Error  | Criteria Met  |
|---------------|-------------|----------|---------------|
| PQ200 PM2.5   | 1752        | 4.8% Low | Yes           |
| TSP Tisch     | 4035        | 2.5% Low | Yes           |
| Dustfall Jars | N/A         | N/A      | Not Conducted |

If you have any questions, do not hesitate to call.

Yours truly,

Jim Stachowich  
Senior Environmental Officer  
Badge #1528  
Air, Pesticides and Environmental Planning  
Technical Support Section  
Northern Region

c: Garnet Cornell New Gold Inc.  
c: Jason Tittlemier Senior Environmental Officer, Kenora District Office, MOE  
c: File AQ 06 13 Thunder Bay/NewGold Inc./62054/62055/2023/Semi #2



**NEW GOLD INC.  
RAINY RIVER MINE**

**AMBIENT AIR QUALITY MONITORING PROGRAM  
FOURTH QUARTER 2023 REPORT**

**FEBRUARY 2024**

## ACRONYMS AND ABBREVIATIONS

|                          |  |
|--------------------------|--|
| $\mu\text{g}/\text{m}^3$ | Microgram per Cubic Metre  |
| AAQC                     | Ambient Air Quality Criteria   |
| AAQO                     | Alberta Ambient Air Quality Objectives                                 |
| ACFM                     | Cubic Feet Per Minute at Actual Conditions                             |
| AEP                      | Alberta Environment and Parks  |
| ASTM                     | American Society for Testing and Materials                             |
| BCMOE                    | British Columbia Ministry of the Environment                           |
| CAAQS                    | Canadian Ambient Air Quality Standards                                 |
| CFM                      | Cubic Foot Per Minute  |
| Hi-Vol                   | High Volume Sampler  |
| ICP/AES                  | Inductively Coupled Plasma / Atomic Emission Spectroscopy              |
| ICP/MS                   | Inductively Coupled Plasma / Mass Spectrometry                         |
| LPM                      | Litres Per Minute  |
| MECP                     | Ministry of the Environment, Conservation and Parks                    |
| NIST                     | National Institute of Standards and Technology                         |
| $\text{NO}_2$            | Nitrogen Dioxide   |
| $\text{PM}_{2.5}$        | Particulate Matter less than 2.5 microns ( $\mu\text{m}$ ) in diameter |
| POI                      | Point of Impingement   |
| $\text{SO}_2$            | Sulphur Dioxide  |
| TSP                      | Total Suspended Particulate  |
| U.S. EPA                 | United States Environmental Protection Agency                          |
| UTM                      | Universal Transverse Mercator  |

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## **Section 1. INTRODUCTION**

The following is a summary of the Fourth Quarter 2023 Report results of the Ambient Air Quality Monitoring Program undertaken at New Gold Inc.'s Rainy River Mine located north-west of Emo, Ontario.

In this quarter, New Gold Inc. (New Gold) staff operated and maintained the ambient air quality monitoring sampling stations; communicated with laboratory staff, as required; prepared data summary reports; and performed equipment calibrations at the various monitoring stations, as necessary.

This Quarterly Ambient Air Quality Report addresses the required elements of a Quarterly Report, as defined in the "Operations Manual for Air Quality Monitoring in Ontario" (Ontario Ministry of the Environment, Conservation and Parks, 2019), hereafter referred to as the Operations Manual. The following information is provided:

- Sampling Details
- Contaminant Summary Statistics
  - Number of Valid Samples and Percent Valid Data
  - Arithmetic and Geometric Means
  - Max Sampling Results
- Summary of Exceedances of All Applicable Limits (incl. Ontario AAQCs and CAAQS)

The purpose of the Ambient Air Quality Monitoring Program is to quantify the potential air quality effects associated with mining activities. The Program is conducted in accordance with the Site's Amended Environmental Compliance Approval (ECA) No. 0412-A2LR4V, issued on September 24, 2015, and the MECP Program Approval Letter, dated November 9, 2016.

The Program consists of three (3) sampling stations established in May 2015:

- South-west of the Site near McMillan Road along the realigned Highway 600 (Tait Road Station);
- North-east of the Site along Gallinger Road (Gallinger Road Station); and
- North-west monitoring station.

These sampling stations consist of:

- One (1) High Volume (Hi-Vol) Sampler for discrete sampling of total suspended particulate (TSP) and metals;
- One (1) PQ200 Sampler for discrete sampling of respirable particulate matter (PM<sub>2.5</sub>);
- One (1) passive dustfall collection unit for sampling dustfall; and

- One (1) passive sampling enclosure for sampling nitrogen dioxide (NO<sub>2</sub>) and sulphur dioxide (SO<sub>2</sub>).

## Section 2. MONITORING STATIONS

The ambient air quality monitoring stations were sited in accordance with the criteria stipulated in the Operations Manual (2019).

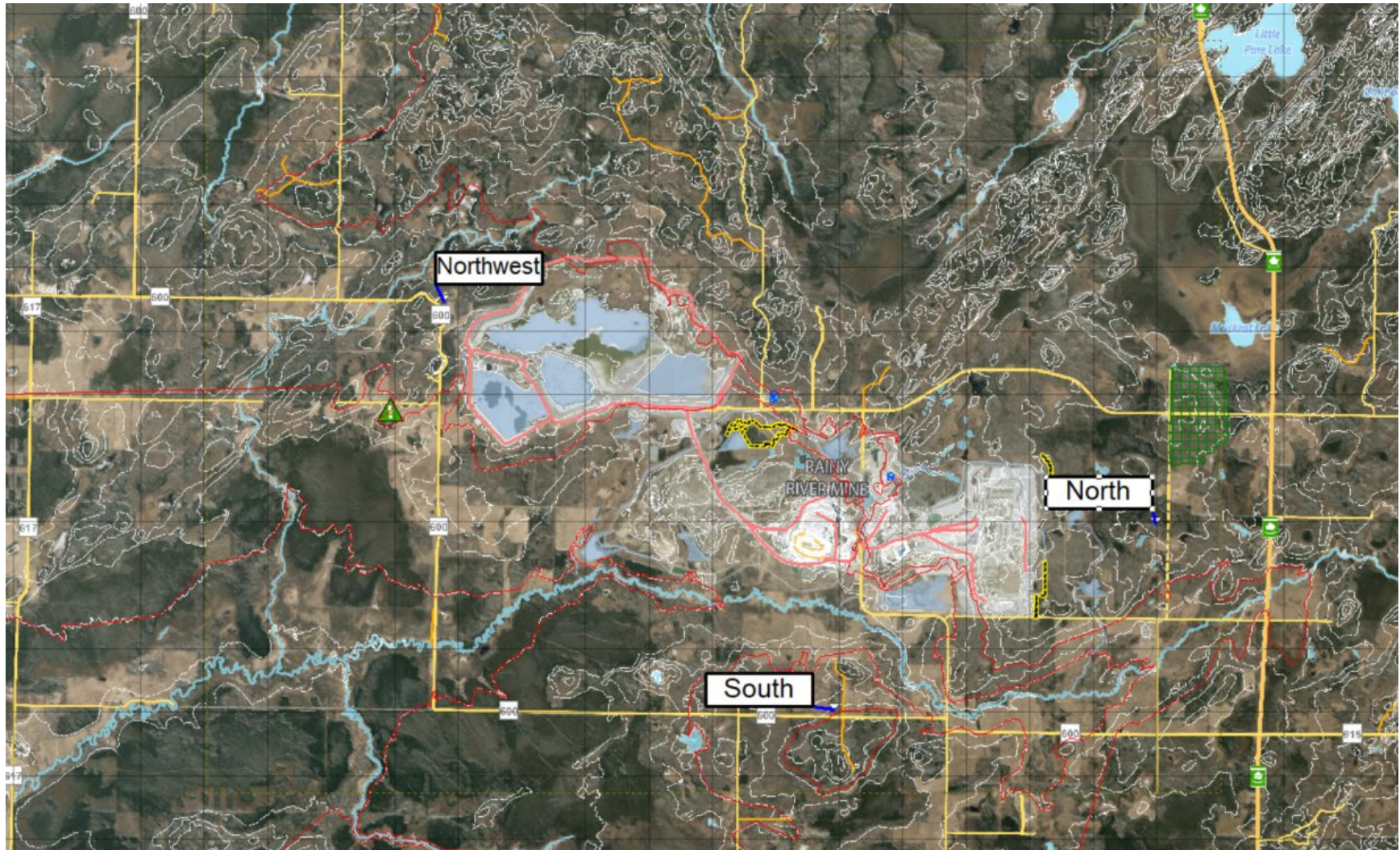
Universal Transverse Mercator (UTM) co-ordinates for each station based on the NAD83 co-ordinate system are presented in **Table 2-1**. The stations are shown in **Figure 2-1** through **Figure 2-7** below.

*Table 2-1. Ambient Air Monitoring Stations*

| Station                            | UTM Co-ordinates |              |      | Parameters Monitored   |
|------------------------------------|------------------|--------------|------|--|
|                                    | Easting (m)      | Northing (m) | Zone |  |
| Tait Road (Southwest Station)      | 426 072          | 5 406 996    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Gallinger Road (Northeast Station) | 431 133          | 5 410 534    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall, NO <sub>2</sub> , SO <sub>2</sub> |
| Northwest Station (TMA)            | 419 797          | 5 413 042    | 15   | TSP, Metals, PM <sub>2.5</sub> , Dustfall                                    |

### 2.1 METEOROLOGICAL STATION

Barron Site, located near Heatwole Road, contains a meteorological station that provides real-time wind speed, wind direction, temperature, relative humidity, precipitation, and solar radiation data. All measurements taken at this Site are taken at a height of ten (10) meters above grade.



*Figure 2-1. Ambient Air Monitoring Station Locations*



Figure 2-2. Tait Road Station Siting



Figure 2-3. Gallinger Road Station Siting



*Figure 2-4. Tait Road Station Detailed View*



**Figure 2-5. Northwest Station Siting**



## Section 3. ANALYTICAL METHODS

### 3.1 TOTAL SUSPENDED PARTICULATE MATTER (TSP) AND METALS

24-hour average TSP and metal samples were collected as specified in the Operations Manual. Samples were collected every sixth (6<sup>th</sup>) day, as per the U.S. EPA Sampling Schedule (United States Environmental Protection Agency, 2020).

TSP and metal samples were collected using High Volume (Hi-Vol) Samplers with a brush motor and controlled mass flow. The samples are collected on an 8-inch by 10-inch Hi-Vol quartz filter.

TSP concentrations are determined using the standard gravimetric reference method described in Compendium Method IO-3.1 of the U.S. EPA's "Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air" (1999).

The lowest detectable mass of TSP on the filter is 2,300 micrograms ( $\mu\text{g}$ ). A valid 24-hour sample volume for the Hi-Vol Sampler ranges between 1,468 and 1,794 cubic metres ( $\text{m}^3$ ). As such, the method detection limit (MDL) for TSP ranges between 1.28 and 1.57 micrograms per cubic metre ( $\mu\text{g}/\text{m}^3$ ).

Metal concentrations are determined using Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP/AES) based on Compendium Method IO-3.5 (U.S. EPA, 1999). The metals and metalloids (elements with both metallic and non-metallic properties) analyzed include arsenic (As), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), manganese (Mn), nickel (Ni), selenium (Se), vanadium (V), and zinc (Zn).

The total volume of each sample is calculated using methods recommended by the sampler manufacturer. These calculations account for ambient temperature and pressure, sampler flow rate, and individual monitor specifications. The calculations are not corrected for humidity.

### 3.2 RESPIRABLE PARTICULATE MATTER ( $\text{PM}_{2.5}$ )

Respirable particulate samples are collected at the same time as TSP samples (every sixth day, as per the EPA Sampling Schedule).

Samples are collected using PQ200 Samplers over a 24-hour period to align with the averaging time for the Canadian Ambient Air Quality Standard (CAAQS). The samples are collected on a 47-millimetre (mm) diameter polytetrafluoroethylene (PTFE; Teflon) filter.

$\text{PM}_{2.5}$  concentrations are determined using the standard gravimetric reference method outlined in the U.S. EPA's "Quality Assurance Guidance Document 2.12: Monitoring  $\text{PM}_{2.5}$  in Ambient Air Using Designated Reference or Class I Equivalent Methods" (U.S. EPA, 2016).

The lowest detectable mass of  $\text{PM}_{2.5}$  on the ( $\mu\text{g}$ ). Based on a valid 24-hour sample volume Teflon filter is 15 micrograms ranging between 21.6 and 26.4  $\text{m}^3$ , the MDL for  $\text{PM}_{2.5}$  ranges between 0.9 and 16.7  $\mu\text{g}/\text{m}^3$ .

Total sample volume is recorded mechanically by the PQ200 Samplers.

### 3.3 TOTAL DUSTFALL

Total dustfall deposition samples are collected over a 30-day period using standard plastic dustfall sampler jars with four (4) millimetre (mm) polyethylene liners. The dustfall jars are treated with an algaecide to prevent algal growth during the summer and alcohol to prevent freezing during the winter.

The sample jars measure roughly 15.4-centimetres (cm) in diameter by 30.5 cm in height.

The water soluble and insoluble portions of dustfall are determined by gravimetric analysis using the method described in Section G of British Columbia Ministry of the Environment's "Air Constituents – Inorganic" (British Columbia Ministry of the Environment, 2020).

Metal concentrations within the dustfall samples are determined using Inductively Coupled Plasma-Mass Spectrometry (ICP/MS) in accordance with U.S. EPA's Method 6020A (SW-846) (U.S. EPA, 1998). The metals and metalloids sampled include aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), bismuth (Bi), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), phosphorus (P), potassium (K), selenium (Se), silicon (Si), silver (Ag), sodium (Na), strontium (Sr), thallium (Tl), tin (Sn), titanium (Ti), uranium (U), vanadium (V), and zinc (Z).

The analysis method employed for total dustfall has an MDL of 0.3 grams per square metre per 30 days ( $\text{g}/\text{m}^2/30$  days).

### 3.4 PASSIVE SAMPLING FOR $\text{SO}_2$ AND $\text{NO}_2$

Sulphur dioxide ( $\text{SO}_2$ ) and nitrogen dioxide ( $\text{NO}_2$ ) concentrations are monitored by passive monitoring devices over a 30-day exposure period. As such, sample uptake depends on temperature, relative humidity, and wind speed. To account for this, analytical results are adjusted based on the monthly averages for these meteorological parameters throughout the exposure period. The required meteorological data are obtained by Maxxam Analytics from the Environment and Climate Change Canada website for the Fort Frances meteorological station (Climate ID 6022474) with each sample submission.

Since there is currently no MECP guidance on 30-day passive sampling of  $\text{NO}_2$  or  $\text{SO}_2$ , sampling is performed using the methodology developed, approved, and validated by Alberta Environment with the support of the Alberta Research Council, the Clean Air Strategic Alliance of Alberta, and the National Research Council of Canada (Bari, Curran, & Kindzierski, 2015).

For both  $\text{SO}_2$  and  $\text{NO}_2$ , the analytical MDL is on the order of 0.1 parts per billion by volume (ppbv). Validation tests conducted in Alberta show that results from passive sampling are typically within ten percent (10%) of those obtained from sampling with continuous analyzers for 30-day exposure periods (2015).

Since there are no MECP guidelines for monthly concentrations of  $\text{SO}_2$  or  $\text{NO}_2$  obtained from passive sampling, this data is used solely for screening purposes.

For NO<sub>2</sub>, the monthly results are compared against Ontario's 24-hour AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day (720-hour) average (78 µg/m<sup>3</sup>) using the methodology outlined in the MECP's "Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report" (Ontario Ministry of the Environment, Conservation and Parks, 2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta's 30-day Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).

## Section 4. MONITORING METHODS

### 4.1 HI-VOL AND PQ200 SAMPLERS

Stations are visited every six days to take samples for TSP, metals, and PM<sub>2.5</sub>. The exposed filter is recovered, and a pre-weighed filter is installed for the subsequent sample run.

Additional visits are made to the stations, as required, to resolve instrumentation issues, perform flow calibration checks, and preventative/proactive maintenance. All calibrations are performed in accordance with manufacturer specifications.

Flow calibrations are performed at least once per quarter by New Gold staff on the Hi-Vol TE-5170 Samplers using a Tisch Delta Calibration kit. The flow is calibrated to a flow rate of 1,133 litres per minute (LPM), which produces a sample volume of 1,632 m<sup>3</sup> in a 24-hour period.

For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly and are only calibrated if they don't pass the verification using an electronic BGI Flow Calibrator. The flow is calibrated to a flow rate of 16.7 LPM, which produces a sample volume of 24 m<sup>3</sup> in a 24-hour period.

**Table 4-1** below outlines the dates on which calibrations were performed on the Hi-Vol and PQ200 Samplers in this quarter. Calibration sheets for the samplers can be found in **Appendix D**. For PQ200 samplers, flow rate verification, temperature and pressure verification are performed monthly.

*Table 4-1. Sampler Calibration Dates*

| Station                        | Hi-Vol Sampler Calibration Date | PQ200 Sampler Calibration Date |
|--------------------------------|---------------------------------|--------------------------------|
| Tait Road (South Station)      | 2023-12-27                      | 2023-12-03                     |
| Gallinger Road (North Station) | 2023-11-10                      | N/A                            |
| Northwest Station (TMA)        | 2023-12-27                      | 2023-12-03                     |

### 4.2 DUSTFALL SAMPLERS

The dustfall samplers containing algacide are changed monthly to correspond with the 30-day exposure period.

Dustfall jars are provided by the laboratory with screw-on lids to prevent sample loss during transport.

### 4.3 PASSIVE SAMPLERS

The permeation filters in the passive samplers are also changed monthly to correspond with the 30-day exposure period.

Filters are kept in cassettes inside Ziploc bags until deployment to prevent premature exposure. After the sample is collected, the filter is placed back into the cassette and back into the Ziploc bag for shipment to the lab.

## Section 5. SAMPLING ISSUES

### 5.1 PERFORMANCE AND SITE AUDITS

There was one MECP audit in Q4.

### 5.2 EQUIPMENT AND SAMPLING ISSUES

There were three (3) samples invalidated in this quarter, as described in the table below and in **Appendix E**.

*Table 5-1. Q4 Invalidated Samples*

| Sample Date       | Station | Contaminant            | Reasoning                                      |
|-------------------|---------|------------------------|--|
| October 3, 2023   | North   | TSP, PM <sub>2.5</sub> | Sample volume was below the lower volume limit |
| November 14, 2023 | North   | TSP                    | Sample volume was below the lower volume limit |

## Section 6. SAMPLING RESULTS

Sampling results for Q4 are presented in **Section 6.1** and **Appendix A-1** for TSP and metals, **Section 6.2** and **Appendix A-1** for PM<sub>2.5</sub>, **Section 6.3** and **Appendices A-2** and **A-3** for total dust fall, and **Section 6.4** and **Appendix A-4** for passive SO<sub>2</sub> and NO<sub>2</sub>.

In performing statistical analyses, as per the Operations Manual, a value of half the method detection limit is substituted for concentrations that are reported below the method detection limit. Laboratory Certificates of Analysis for all samples collected in Q4 are provided in **Appendix C**.

For comparative purposes, the Ontario AAQC and Canadian AAQS values are presented, where available. It is important to note that the Ontario AAQCs are equivalent to the standards prescribed by *Ontario Regulation 419/05: Air Pollution – Local Air Quality* (Government of Ontario, 2019).

Q4 presented fifteen (15) possible sampling days between October 1, 2023, and December 31, 2023, for the 6-day sampling schedule. Summaries of the analyses for TSP, metals, and PM<sub>2.5</sub> are presented in **Table 6-1**, **Table 6-2**, and **Table 6-3**, respectively.

Summaries of the analyses for total dustfall (incl. metals) and passive SO<sub>2</sub> and NO<sub>2</sub> are presented in **Table 6-4**, **Table 6-5**, **Table 6-6**, and **Table 6-7**.

### 6.1 TSP AND METALS

In this quarter, the Gallinger Road Station collected thirteen (13) valid samples (87% valid data). The Northwest Station and Tait Road Station collected fifteen (15) valid samples (100% valid data). Since the data for Gallinger station is below the 90% valid data threshold, statistical analyses for TSP and metals are computed using all data, including invalid samples.

For this quarter, the arithmetic mean of TSP concentration was 31.41 µg/m<sup>3</sup> at the Tait Road Station, 30.30 µg/m<sup>3</sup> at the Gallinger Road Station, and 36.20 µg/m<sup>3</sup> at the Northwest Station. Geometric means for the three stations were 22.60 µg/m<sup>3</sup>, 18.35 µg/m<sup>3</sup>, and 19.57 µg/m<sup>3</sup>, respectively.

The maximum 24-hour concentration for TSP was 102.72 µg/m<sup>3</sup> at the Tait Road Station on October 15<sup>th</sup> at the Tait Road Station, 113.40 µg/m<sup>3</sup> at the Gallinger Road Station on December 2<sup>nd</sup>, and 199.20 µg/m<sup>3</sup> at the Northwest Station on 20<sup>th</sup> December 2023.

Laboratory data are provided as the mass of contaminant on the filter, in micrograms. This is divided by the total sample volume measured by the Hi-Vol Sampler to determine the concentration of the contaminant in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was one exceedance observed for TSP at the Northwest Station December 20, 2023.

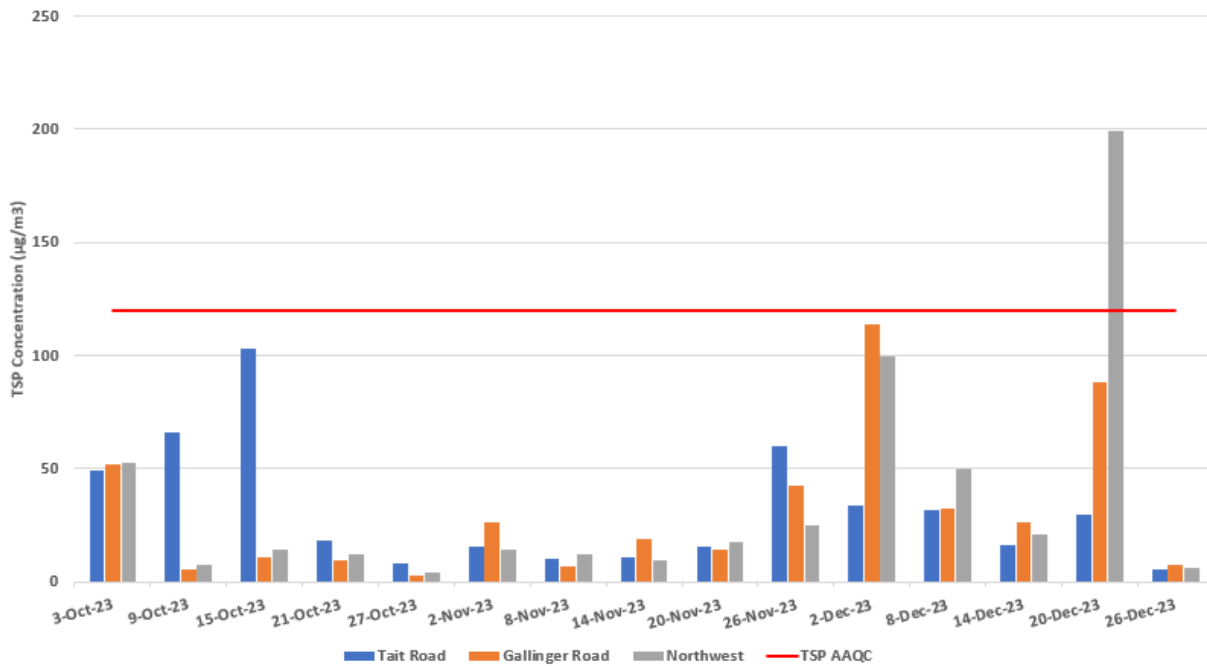
Data is summarized for TSP and metals in **Table 6-1** and **Table 6-2**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1**, **Figure 6-1**, and **Figure 6-2**.

**Table 6-1. TSP Summary Statistics. Concentrations presented in µg/m<sup>3</sup>.**

|                             | Tait Road Station | Gallinger Road Station | Northwest Station |
|-----------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples     | 15                | 13                     | 15                |
| % Valid Data                | 100%              | 87%                    | 100%              |
| Arithmetic Mean             | 31.41             | 30.30                  | 36.20             |
| Geometric Mean              | 22.60             | 18.35                  | 19.57             |
| 24-Hour Maximum             | 102.72            | 113.40                 | 199.20            |
| 24-Hour Minimum             | 5.65              | 3.00                   | 4.12              |
| October Maximum             | 102.72            | 51.48                  | 52.21             |
| November Maximum            | 59.68             | 42.39                  | 24.88             |
| December Maximum            | 33.95             | 113.40                 | 199.20            |
| 90 <sup>th</sup> Percentile | 63.26             | 73.49                  | 80.72             |
| 95 <sup>th</sup> Percentile | 76.77             | 95.73                  | 129.56            |
| TSP AAQC                    | 120               | 120                    | 120               |
| Samples > TSP AAQC          | 0                 | 0                      | 1                 |
| Samples > Metal AAQC        | 0                 | 0                      | 0                 |

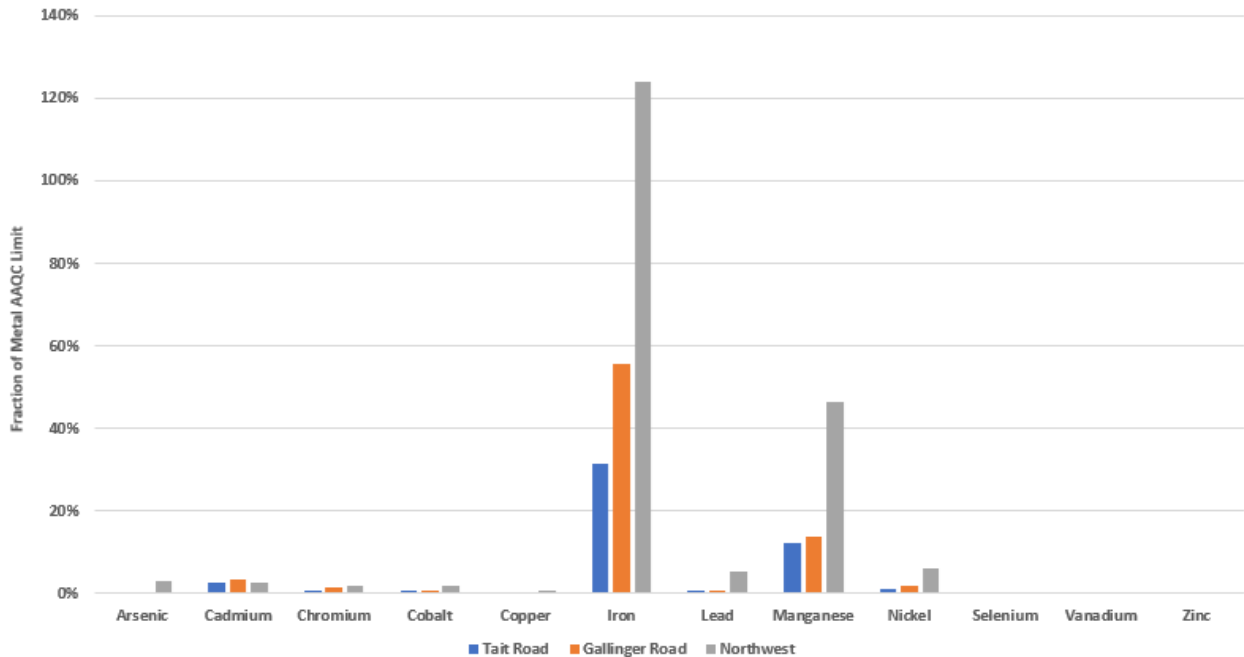
**Table 6-2. Maximum Concentrations of Metals. Concentrations presented in  $\mu\text{g}/\text{m}^3$ .**

| Metal | 24-Hour AAQC | Tait Road Station     |                  | Gallinger Road Station |                  | Northwest Station     |                  |
|-------|--------------|-----------------------|------------------|------------------------|------------------|-----------------------|------------------|
|       |              | Maximum Concentration | Fraction of AAQC | Maximum Concentration  | Fraction of AAQC | Maximum Concentration | Fraction of AAQC |
| As    | 0.3          | 9.80E-04              | 0.33%            | 1.22E-03               | 0.41%            | 9.14E-03              | 3.05%            |
| Cd    | 0.025        | 6.54E-04              | 2.61%            | 8.15E-04               | 3.26%            | 6.66E-04              | 2.66%            |
| Cr    | 0.5          | 4.30E-03              | 0.86%            | 7.05E-03               | 1.41%            | 9.87E-03              | 1.97%            |
| Co    | 0.1          | 6.54E-04              | 0.65%            | 8.15E-04               | 0.82%            | 1.77E-03              | 1.77%            |
| Cu    | 50           | 9.99E-02              | 0.20%            | 1.00E-01               | 0.20%            | 2.65E-01              | 0.53%            |
| Fe    | 4            | 1.25E+00              | 31.37%           | 2.23E+00               | 55.79%           | 4.96E+00              | 124.12%          |
| Pb    | 0.5          | 4.47E-03              | 0.89%            | 3.97E-03               | 0.79%            | 2.64E-02              | 5.29%            |
| Mn    | 0.4          | 4.86E-02              | 12.16%           | 5.43E-02               | 13.58%           | 1.85E-01              | 46.30%           |
| Ni    | 0.2          | 2.16E-03              | 1.08%            | 3.97E-03               | 1.98%            | 1.22E-02              | 6.12%            |
| Se    | 10           | 3.27E-03              | 0.03%            | 9.70E-03               | 0.10%            | 7.67E-03              | 0.08%            |
| V     | 2            | 1.63E-03              | 0.08%            | 3.72E-03               | 0.19%            | 6.46E-03              | 0.32%            |
| Zn    | 120          | 2.66E-02              | 0.02%            | 3.43E-02               | 0.03%            | 1.69E-01              | 0.14%            |



**Figure 6-1. TSP Sampling Results**





**Figure 6-2. Max Metal Sampling Result as a Fraction of Metal AAQC**

## 6.2 PM<sub>2.5</sub>

In this quarter, the Gallinger Road Station and the Northwest Station collected fifteen (15) valid samples, which represents 100% valid data. Tait Road Station collected fourteen (14) valid samples which represent 93% valid data.

For this quarter, the arithmetic mean for the PM<sub>2.5</sub> concentrations were 4.95 µg/m<sup>3</sup>, 5.03 µg/m<sup>3</sup>, and 6.08 µg/m<sup>3</sup> for the Tait Road Station, Gallinger Road Station, and Northwest Station, respectively.

The maximum 24-hour concentrations for PM<sub>2.5</sub> were 11.29 µg/m<sup>3</sup> at the Tait Road Station on Oct 3<sup>rd</sup>, 10.89 µg/m<sup>3</sup> at the Gallinger Road Station on Oct 3<sup>rd</sup>, and 17.35 µg/m<sup>3</sup> at the Northwest Station on November 8<sup>th</sup>, 2023.

Laboratory data is provided as the mass of PM<sub>2.5</sub> on the filter, in micrograms. This value is divided by the total sample volume measured by the PQ200 Sampler to determine the concentration of PM<sub>2.5</sub> in the sample using the following equation:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \frac{\text{Laboratory Measured Mass } (\mu\text{g})}{\text{Sample Volume } (\text{m}^3)}$$

In this quarter, there was no exceedance for PM<sub>2.5</sub>.

Data is summarized for PM<sub>2.5</sub> in **Table 6-3**. Sample data from all runs and further statistical analyses are presented in **Appendix A-1** and **Figure 6-3**.

**Table 6-3. PM<sub>2.5</sub> Summary Statistics. Concentrations presented in  $\mu\text{g}/\text{m}^3$ .**

|                                  | Tait Road Station | Gallinger Road Station | Northwest Station |
|----------------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples          | 14                | 15                     | 15                |
| % Valid Data                     | 93%               | 100%                   | 100%              |
| Arithmetic Mean                  | 4.95              | 5.03                   | 6.08              |
| Geometric Mean                   | 4.12              | 3.87                   | 4.09              |
| 24-Hour Maximum                  | 11.29             | 10.89                  | 17.35             |
| 24-Hour Minimum                  | 1.29              | 0.67                   | 0.31              |
| October Maximum                  | 11.29             | 10.89                  | 12.40             |
| November Maximum                 | 7.57              | 9.94                   | 17.35             |
| December Maximum                 | 8.12              | 9.60                   | 10.99             |
| 90 <sup>th</sup> Percentile      | 7.90              | 9.80                   | 13.05             |
| 95 <sup>th</sup> Percentile      | 9.07              | 10.22                  | 14.64             |
| PM <sub>2.5</sub> AAQC           | 27                | 27                     | 27                |
| Samples > PM <sub>2.5</sub> AAQC | 0                 | 0                      | 0                 |
| MDL ( $\mu\text{g}$ )            | 0                 | 0                      | 0                 |
| Samples < MDL                    | 0                 | 0                      | 0                 |

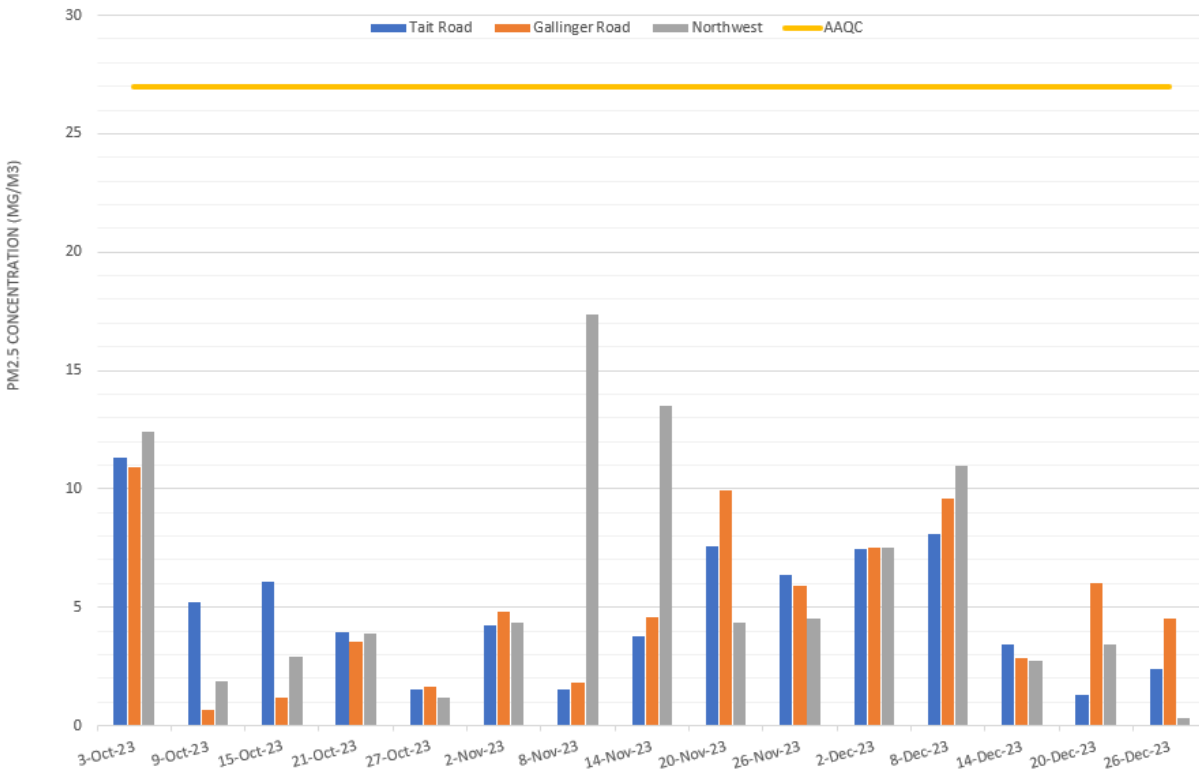


Figure 6-3. PM<sub>2.5</sub> Sampling Results

### 6.3 TOTAL DUSTFALL

New Gold operates three (3) ambient monitoring stations that measure 30-day dustfall levels: Tait Road, Gallinger Road, and Northwest.

In this quarter, the Tait Road, Gallinger Road, and the Northwest stations collected three (3) valid samples (100% valid data).

Laboratory data is provided as the mass of dustfall on the filter per square decimeter per day, in milligrams per decimeter square per day. This value is then converted to the appropriate units for reporting using the equation seen below:

$$Concentration \left( \frac{g}{m^2 \cdot 30 \text{ days}} \right) = Lab \text{ Concentration} \left( \frac{mg}{dm^2 \cdot day} \right) \times \frac{1 g}{1000 mg} \times \frac{100 dm^2}{1 m^2} \times \frac{30 \text{ days}}{30 \text{ days}}$$

During the laboratory analysis, total dustfall is speciated into soluble and insoluble portions, as well as fixed and volatile portions. The fixed portion of total dustfall is the portion of the total dustfall that remains after the sample is ignited at 550°C. The mass of the sample lost during ignition represents the volatile portion. In the summer months (i.e., Q2 and Q3), the volatile portion of the dustfall is largely made up of large, organic particles (e.g., leaves, twigs, bugs, etc.) that are deposited and retained in the sample. As a result, the total dustfall may overestimate the actual dustfall mass in the sample. For this reason, the analysis of dustfall shows both fixed

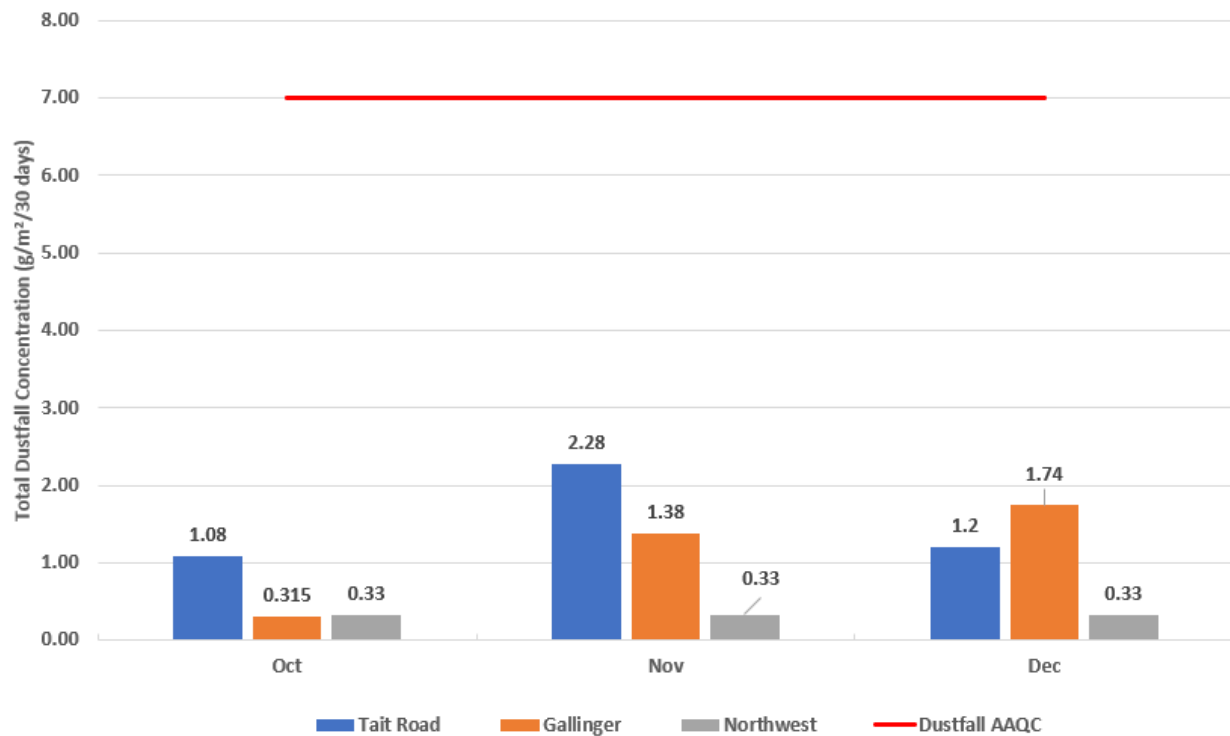
dustfall and total dustfall. The total dustfall versus fixed dustfall masses are compared in **Figure 6-5** and **Figure 6-6**.

In this quarter, there were no exceedances for the total dustfall 30-day Ontario AAQC (7 g/m<sup>2</sup>/30 days).

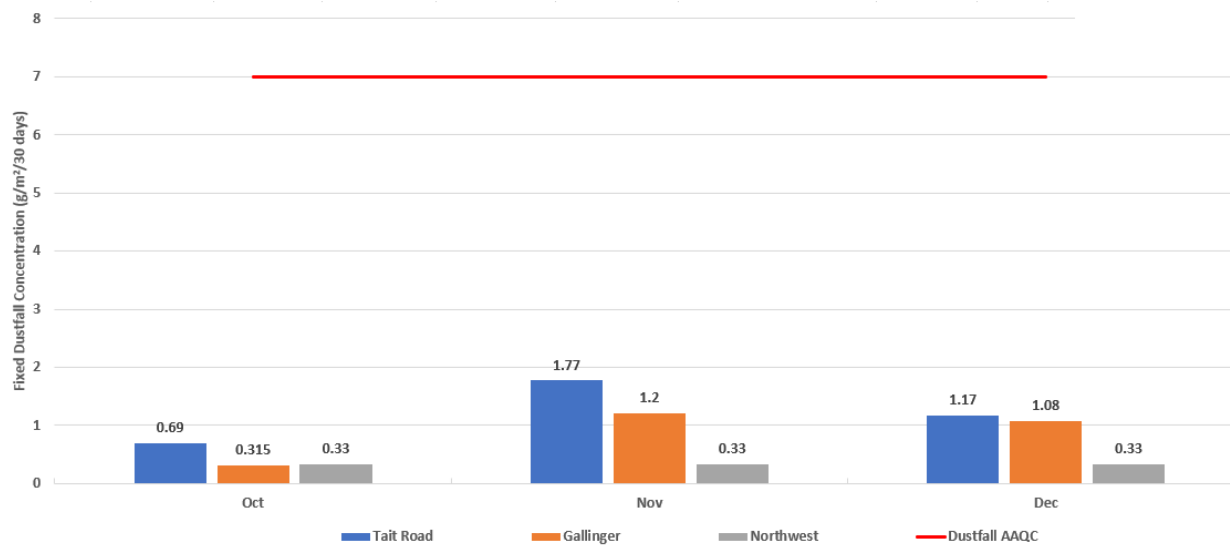
Data is summarized for total dustfall in **Table 6-4**. Sample data from all runs and further statistical analyses are presented in **Appendix A-2**.

**Table 6-4. Total Dustfall Summary Statistics.  
Concentrations presented in g/m<sup>2</sup>/30 days.**

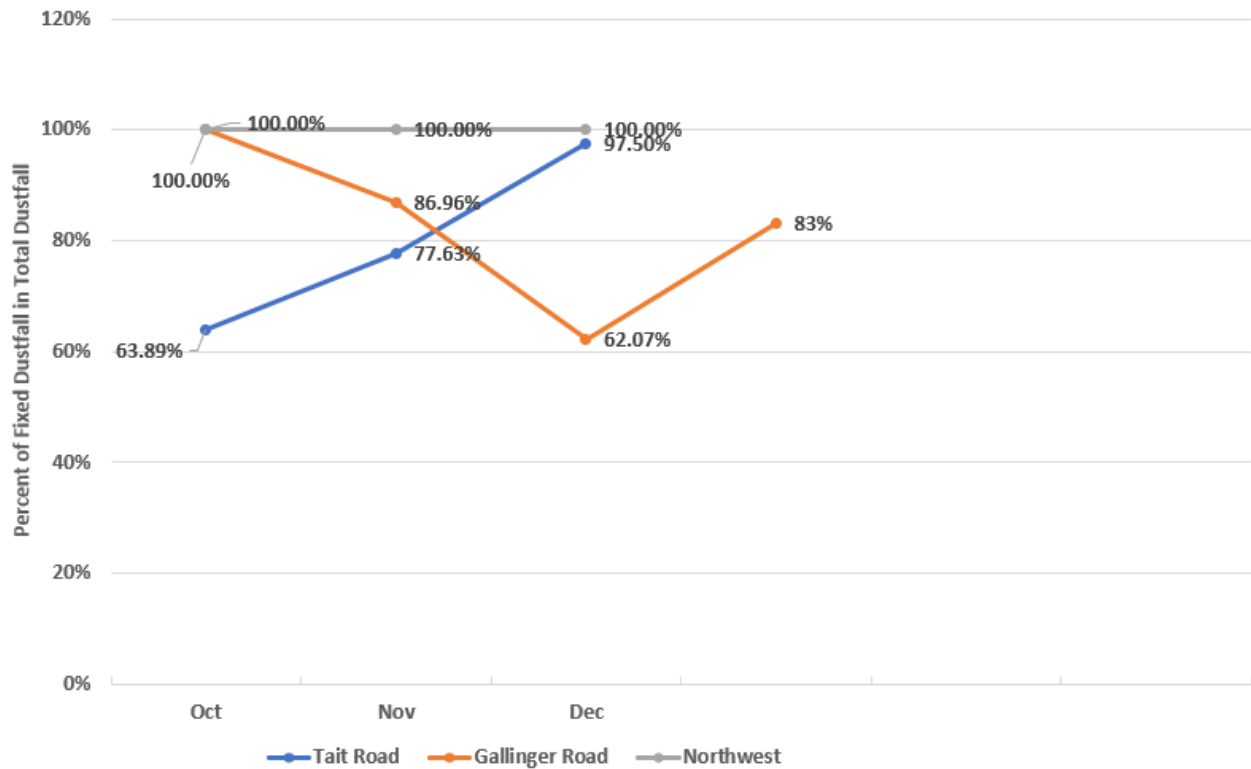
|                         | Tait Road Station | Gallinger Road Station | Northwest Station |
|-------------------------|-------------------|------------------------|-------------------|
| Number of Valid Samples | 3                 | 3                      | 3                 |
| % Valid Data            | 100%              | 100%                   | 100%              |
| Arithmetic Mean         | 1.52              | 1.14                   | 0.33              |
| Monthly Maximum         | 2.28              | 1.74                   | 0.33              |
| Dustfall AAQC           | 7                 | 7                      | 7                 |
| Samples > Dustfall AAQC | 0                 | 0                      | 0                 |
| Samples < MDL           | 0                 | 0                      | 0                 |



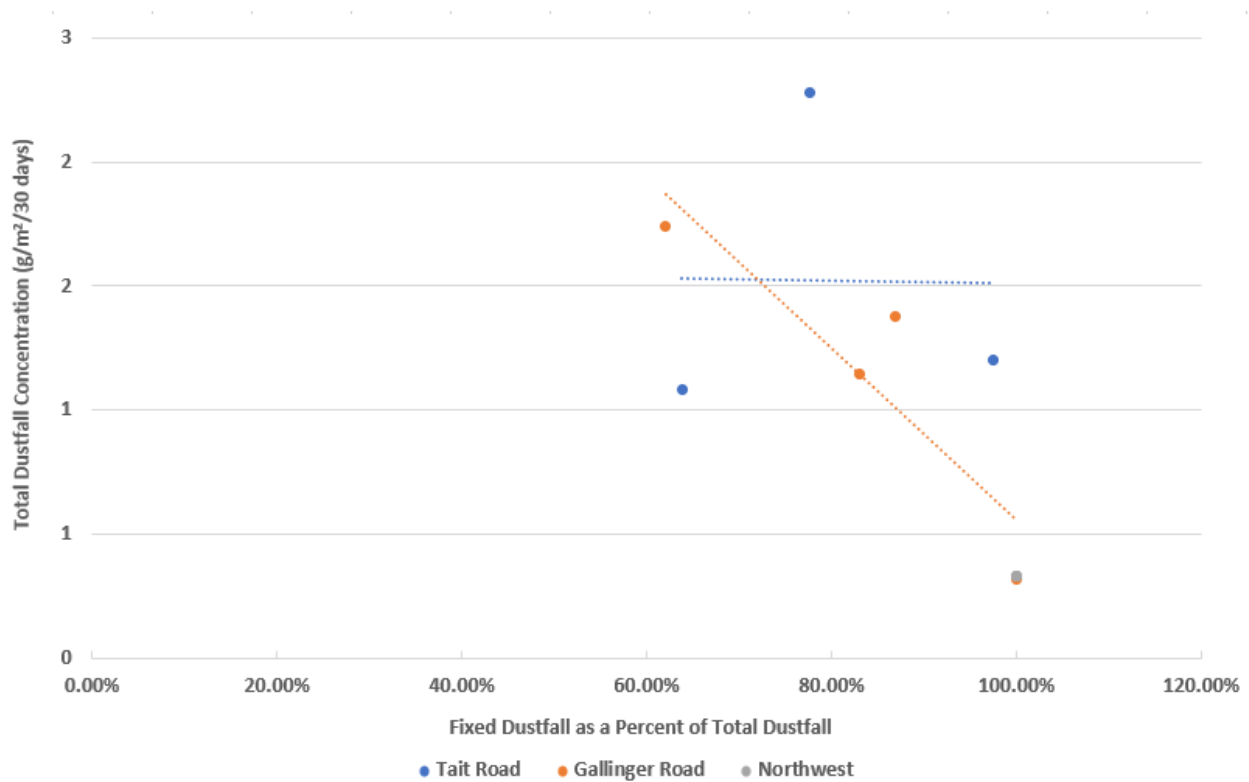
**Figure 6-3. Total Dustfall Sampling Results at POI Stations**



**Figure 6-4. Fixed Dustfall Sampling Results at POI Stations**



**Figure 6-5. Percent of Fixed Dustfall in Total Dustfall**



**Figure 6-6. Fixed Dustfall Fraction vs. Total Dustfall Concentration**

## 6.4 PASSIVE SO<sub>2</sub> AND NO<sub>2</sub>

The Tait Road and Gallinger Road Stations collected three (3) valid samples out of a possible three (3) sampling opportunities (100% valid data) in this quarter.

There are no MECP standards, guidelines, or Ontario AAQCs for SO<sub>2</sub> or NO<sub>2</sub> for a 30-day averaging period. Instead, the 30-day measured average SO<sub>2</sub> or NO<sub>2</sub> concentrations allow for future analysis of trends in the ambient concentrations, identification of notable increases, and comparison with dispersion modelling results.

For NO<sub>2</sub>, the monthly results are compared against Ontario’s 24-hour NO<sub>2</sub> AAQC (200 µg/m<sup>3</sup>) converted to an equivalent 30-day average (78 µg/m<sup>3</sup>) using the methodology outlined in Table 7-1 of the MECP’s “Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report” (2019).

For SO<sub>2</sub>, the monthly results are compared against Alberta’s 30-day SO<sub>2</sub> Ambient Air Quality Objective (AAQO) of 30 µg/m<sup>3</sup> (Alberta Environment and Parks, 2019).

For this quarter, the arithmetic mean SO<sub>2</sub> concentration was 0.26 µg/m<sup>3</sup> at the Tait Road and 0.26 µg/m<sup>3</sup> at the Gallinger Road Stations. The arithmetic mean NO<sub>2</sub> concentrations were 1.88 µg/m<sup>3</sup> and 1.82 µg/m<sup>3</sup> at the Tait Road and Gallinger Road Stations, respectively.

The maximum monthly concentrations of SO<sub>2</sub> were 0.52 µg/m<sup>3</sup> for the Tait Road in month of October and 0.52 µg/m<sup>3</sup> for the Gallinger Road stations in month of December. The maximum monthly concentration of NO<sub>2</sub> was 2.44 µg/m<sup>3</sup> at the Tait Road Station in October and 3.38 µg/m<sup>3</sup> at the Gallinger Road Station in November.

Laboratory data is provided as the concentration of the contaminant in the sample, in parts per billion by volume. This value is then converted to the appropriate units for reporting using the equation seen below:

$$\text{Concentration } (\mu\text{g}/\text{m}^3) = \text{Lab Concentration (ppbv)} \times \frac{\text{Molecular Weight}}{\text{Molar Volume}}$$

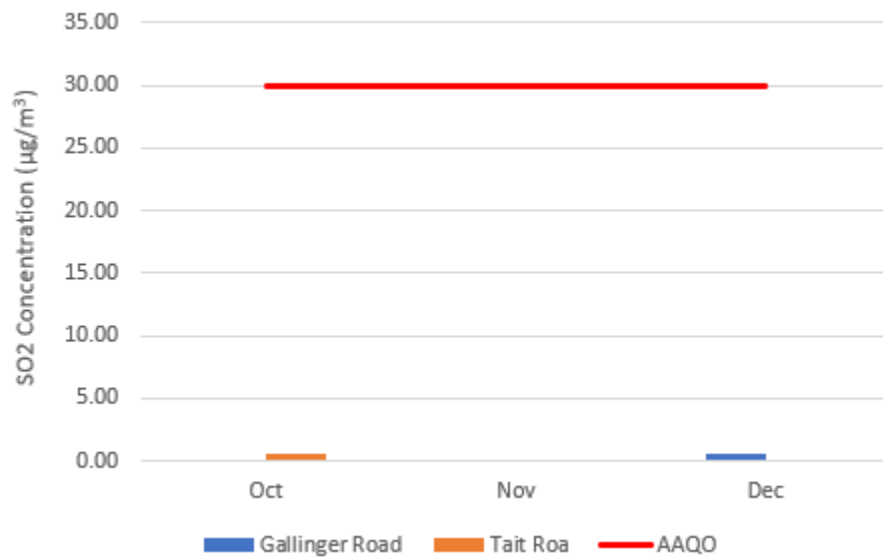
In this quarter, there were no samples that exceeded the converted 24-hour NO<sub>2</sub> Ontario AAQC (78 µg/m<sup>3</sup>), and no samples that exceeded the 30-day Alberta SO<sub>2</sub> AAQO (30 µg/m<sup>3</sup>).

Data is summarized for SO<sub>2</sub> and NO<sub>2</sub> in **Table 6-7**. Sample data from all runs and further statistical analyses are presented in **Appendix A-4**.

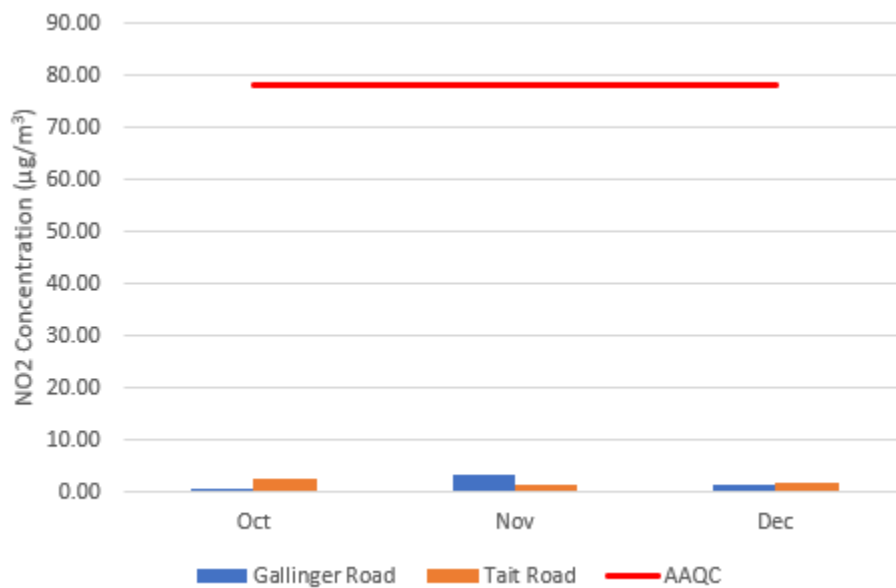
**Table 6-5: Summary Statistics for SO<sub>2</sub> and NO<sub>2</sub>.  
Concentrations presented in µg/m<sup>3</sup>.**

|                         | Tait Road Station |                 | Gallinger Road Station |                 |  |
|-------------------------|-------------------|-----------------|------------------------|-----------------|--|
|                         | SO <sub>2</sub>   | NO <sub>2</sub> | SO <sub>2</sub>        | NO <sub>2</sub> |  |
| Number of Valid Samples | 3                 | 3               | 3                      | 3               |  |
| % Valid Data            | 100%              | 100%            | 100%                   | 100%            |  |
| Arithmetic Mean         | 0.26              | 1.88            | 0.26                   | 1.82            |  |
| Monthly Maximum         | 0.52              | 2.44            | 0.52                   | 3.38            |  |
| Limit                   | 30                | 78              | 30                     | 78              |  |
| Samples > Limit         | 0                 | 0               | 0                      | 0               |  |
| MDL                     | 0.26              | 0.19            | 0.26                   | 0.19            |  |
| Samples < MDL           | 2                 | 0               | 2                      | 0               |  |





**Figure 6-5. SO<sub>2</sub> Monitoring Results**



**Figure 6-8. NO<sub>2</sub> Monitoring Results**

## **Section 7. MITIGATION MEASURES**

No mitigation measures have been implemented at this time.

## **Section 8. CONCLUSION**

The Rainy River Mine Ambient Air Quality Monitoring Program was conducted in the fourth quarter of 2023 in accordance with the Site's Amended Environmental Compliance Approval (ECA) Number 0412-A2LR4V and the MECP Program Approval Letter.

Samples were taken every sixth (6<sup>th</sup>) day for total suspended particulate matter (TSP), metals, and respirable particulate matter (PM<sub>2.5</sub>). Samples were taken monthly for total dustfall, sulphur dioxide (SO<sub>2</sub>), and nitrogen dioxide (NO<sub>2</sub>).

These samples were sent out for analysis in accordance with the methods prescribed in the Operations Manual.

There was one (1) exceedance each of the TSP limit and Metals at the Northwest Station on December 20, 2023

## Section 9. REFERENCES

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United States Environmental Protection Agency. (2020, November). *2021 EPA Sampling Schedule*. Retrieved from Sampling Schedule Calendar: [https://www.epa.gov/sites/production/files/2020-11/documents/2021\\_sampling\\_schedule.pdf](https://www.epa.gov/sites/production/files/2020-11/documents/2021_sampling_schedule.pdf)

**Section 10. CLOSING**

The *Rainy River Mine Ambient Air Quality Monitoring Program Fourth Quarter 2023 Report* was prepared by New Gold Inc. The quality of information, conclusions, and estimates contained herein are based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this document.

If you require further information regarding the above, or the Mine in general, please contact the undersigned at 1(807) 234-8170.

Sincerely,

New Gold Inc.

Rainy River Mine

Prepared By:



Garnet Cornell

Environment Manager

# APPENDIX A: SAMPLING RESULTS

Appendix A-1 TSP, Metals, and PM<sub>2.5</sub> Sampling Results

Appendix A-2 Total Dustfall Sampling Results

Appendix A-3 SO<sub>2</sub> and NO<sub>2</sub> Passive Sampling Results

**APPENDIX A-1:**  
**TSP, METALS, AND PM<sub>2.5</sub> SAMPLING RESULTS**



| Tait Road Station Monitoring Results             |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
|--|--------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| (Concentrations expressed in µg/m <sup>3</sup> ) |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| Date   | TSP    | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
| 3-Oct-23   | 48.76  | <u>9.80E-04</u> | <u>6.54E-04</u> | <u>1.63E-03</u> | <u>6.54E-04</u> | 6.86E-02 | 6.18E-01 | <u>9.80E-04</u> | 2.45E-02 | <u>9.80E-04</u> | <u>3.27E-03</u> | <u>1.63E-03</u> | 1.63E-02 |                   |
| 9-Oct-23   | 65.65  | <u>8.71E-04</u> | <u>5.81E-04</u> | 4.30E-03        | <u>5.81E-04</u> | 9.99E-02 | 1.25E+00 | 2.67E-03        | 4.86E-02 | 2.15E-03        | <u>2.90E-03</u> | <u>1.45E-03</u> | 2.56E-02 | 5.20              |
| 15-Oct-23  | 102.72 | <u>9.06E-04</u> | <u>6.04E-04</u> | 3.20E-03        | <u>6.04E-04</u> | 9.43E-02 | 8.82E-01 | 4.47E-03        | 3.73E-02 | 1.99E-03        | <u>3.02E-03</u> | <u>1.51E-03</u> | 2.19E-02 | 6.08              |
| 21-Oct-23  | 18.08  | <u>9.10E-04</u> | <u>6.07E-04</u> | <u>1.52E-03</u> | <u>6.07E-04</u> | 8.98E-02 | 1.86E-01 | <u>9.10E-04</u> | 8.86E-03 | <u>9.10E-04</u> | <u>3.03E-03</u> | <u>1.52E-03</u> | 6.31E-03 | 3.96              |
| 27-Oct-23  | 7.96   | <u>9.19E-04</u> | <u>6.12E-04</u> | <u>1.53E-03</u> | <u>6.12E-04</u> | 7.78E-02 | 1.26E-01 | <u>9.19E-04</u> | 4.72E-03 | <u>9.19E-04</u> | <u>3.06E-03</u> | <u>1.53E-03</u> | 7.35E-03 | 1.54              |
| 2-Nov-23   | 15.77  | <u>8.99E-04</u> | <u>6.00E-04</u> | <u>1.50E-03</u> | <u>6.00E-04</u> | 3.81E-02 | 2.37E-01 | <u>8.99E-04</u> | 6.24E-03 | <u>8.99E-04</u> | <u>3.00E-03</u> | <u>1.50E-03</u> | 7.80E-03 | 4.24              |
| 8-Nov-23   | 9.95   | <u>8.63E-04</u> | <u>5.75E-04</u> | <u>1.44E-03</u> | <u>5.75E-04</u> | 4.81E-02 | 1.43E-01 | <u>8.63E-04</u> | 4.49E-03 | <u>8.63E-04</u> | <u>2.88E-03</u> | <u>1.44E-03</u> | 7.42E-03 | 1.54              |
| 14-Nov-23  | 10.50  | <u>8.56E-04</u> | <u>5.70E-04</u> | <u>1.43E-03</u> | <u>5.70E-04</u> | 4.49E-02 | 3.16E-01 | <u>8.56E-04</u> | 1.59E-02 | <u>8.56E-04</u> | <u>2.85E-03</u> | <u>1.43E-03</u> | 6.73E-03 | 3.75              |
| 20-Nov-23  | 15.29  | <u>8.79E-04</u> | <u>5.86E-04</u> | <u>1.46E-03</u> | <u>5.86E-04</u> | 5.56E-02 | 3.88E-01 | <u>8.79E-04</u> | 8.73E-03 | <u>8.79E-04</u> | <u>2.93E-03</u> | <u>1.46E-03</u> | 8.20E-03 | 7.57              |
| 26-Nov-23  | 59.68  | <u>8.53E-04</u> | <u>5.68E-04</u> | <u>1.42E-03</u> | <u>5.68E-04</u> | 8.81E-02 | 1.10E+00 | 2.39E-03        | 3.10E-02 | 2.16E-03        | <u>2.84E-03</u> | <u>1.42E-03</u> | 2.66E-02 | 6.37              |
| 2-Dec-23   | 33.95  | <u>8.78E-04</u> | <u>5.85E-04</u> | <u>1.46E-03</u> | <u>5.85E-04</u> | 5.91E-02 | 8.90E-01 | <u>8.78E-04</u> | 2.27E-02 | <u>8.78E-04</u> | <u>2.93E-03</u> | <u>1.46E-03</u> | 6.67E-03 | 7.45              |
| 8-Dec-23   | 31.42  | <u>8.86E-04</u> | <u>5.91E-04</u> | <u>1.48E-03</u> | <u>5.91E-04</u> | 7.80E-02 | 3.70E-01 | 2.13E-03        | 2.07E-02 | <u>8.86E-04</u> | <u>2.95E-03</u> | <u>1.48E-03</u> | 1.85E-02 | 8.12              |
| 14-Dec-23  | 16.26  | <u>9.20E-04</u> | <u>6.13E-04</u> | <u>1.53E-03</u> | <u>6.13E-04</u> | 9.26E-02 | 2.79E-01 | 2.15E-03        | 1.62E-02 | <u>9.20E-04</u> | <u>3.07E-03</u> | <u>1.53E-03</u> | 1.86E-02 | 3.45              |
| 20-Dec-23  | 29.46  | <u>8.73E-04</u> | <u>5.82E-04</u> | <u>1.46E-03</u> | <u>5.82E-04</u> | 7.86E-02 | 7.04E-01 | <u>8.73E-04</u> | 1.91E-02 | <u>8.73E-04</u> | <u>2.91E-03</u> | <u>1.46E-03</u> | 1.58E-02 | 1.29              |
| 26-Dec-23  | 5.65   | <u>8.65E-04</u> | <u>5.77E-04</u> | <u>1.44E-03</u> | <u>5.77E-04</u> | 5.43E-02 | 6.86E-02 | <u>8.65E-04</u> | 1.73E-03 | <u>8.65E-04</u> | <u>2.88E-03</u> | <u>1.44E-03</u> | 9.92E-03 | 2.41              |
| <b>Arithmetic Mean</b>                           | 31.41  | 8.91E-04        | 5.94E-04        | 1.79E-03        | 5.94E-04        | 7.12E-02 | 5.04E-01 | 1.52E-03        | 1.80E-02 | 1.14E-03        | 2.97E-03        | 1.48E-03        | 1.36E-02 | 4.50              |
| <b>Geometric Mean</b>                            | 22.60  | 8.90E-04        | 5.93E-04        | 1.68E-03        | 5.93E-04        | 6.84E-02 | 3.69E-01 | 1.28E-03        | 1.31E-02 | 1.06E-03        | 2.97E-03        | 1.48E-03        | 1.19E-02 | 3.83              |
| <b>Max Sample</b>                                | 102.72 | 9.80E-04        | 6.54E-04        | 4.30E-03        | 6.54E-04        | 9.99E-02 | 1.25E+00 | 4.47E-03        | 4.86E-02 | 2.16E-03        | 3.27E-03        | 1.63E-03        | 2.66E-02 | 8.12              |
| <b>Min Sample</b>                                | 5.65   | 8.53E-04        | 5.68E-04        | 1.42E-03        | 5.68E-04        | 3.81E-02 | 6.86E-02 | 8.56E-04        | 1.73E-03 | 8.56E-04        | 2.84E-03        | 1.42E-03        | 6.31E-03 | 1.29              |
| <b>AAQC Limit</b>                                | 120    | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27                |
| <b>No. &gt; AAQC Limit</b>                       | 0      | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 0                 |
| <b>No. Valid Samples</b>                         | 15     | 15              | 15              | 15              | 15              | 15       | 15       | 15              | 15       | 15              | 15              | 15              | 15       | 14                |
| <b>MDL (µg)</b>                                  | 2,300  | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 15                |
| <b>No. &lt; MDL</b>                              | 0      | 15              | 15              | 13              | 15              | 0        | 0        | 10              | 0        | 13              | 15              | 15              | 0        | 0                 |
| <b>% of Valid Samples</b>                        | 100%   | 100%            | 100%            | 100%            | 100%            | 100%     | 100%     | 100%            | 100%     | 100%            | 100%            | 100%            | 100%     | 93%               |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

| Gallinger Road Station Monitoring Results (North) |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
|---|--------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| (concentrations expressed in µg/m <sup>3</sup> )  |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| Date  | TSP    | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
| 3-Oct-23  |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 10.89             |
| 9-Oct-23  | 5.07   | <u>8.95E-04</u> | <u>5.96E-04</u> | <u>1.49E-03</u> | <u>5.96E-04</u> | 7.22E-02 | 5.19E-02 | <u>8.95E-04</u> | 1.55E-03 | <u>8.95E-04</u> | <u>2.98E-03</u> | <u>1.49E-03</u> | 3.16E-03 | 0.67              |
| 15-Oct-23   | 10.47  | <u>9.02E-04</u> | <u>6.01E-04</u> | <u>1.50E-03</u> | <u>6.01E-04</u> | 7.88E-02 | 1.20E-01 | <u>9.02E-04</u> | 4.63E-03 | <u>9.02E-04</u> | <u>3.01E-03</u> | <u>1.50E-03</u> | 7.88E-03 | 1.16              |
| 21-Oct-23   | 9.71   | <u>8.88E-04</u> | <u>5.92E-04</u> | <u>1.48E-03</u> | <u>5.92E-04</u> | 6.81E-02 | 4.44E-02 | <u>8.88E-04</u> | 1.78E-03 | <u>8.88E-04</u> | <u>2.96E-03</u> | <u>1.48E-03</u> | 5.33E-03 | 3.53              |
| 27-Oct-23   | 3.00   | <u>9.01E-04</u> | <u>6.00E-04</u> | <u>1.50E-03</u> | <u>6.00E-04</u> | 6.60E-02 | 4.80E-02 | <u>9.01E-04</u> | 1.80E-03 | <u>9.01E-04</u> | <u>3.00E-03</u> | <u>1.50E-03</u> | 5.10E-03 | 1.62              |
| 2-Nov-23  | 26.53  | <u>9.80E-04</u> | <u>6.53E-04</u> | <u>1.63E-03</u> | <u>6.53E-04</u> | 4.09E-02 | 5.62E-01 | <u>9.80E-04</u> | 1.95E-02 | <u>9.80E-04</u> | <u>3.27E-03</u> | <u>1.63E-03</u> | 1.71E-02 | 4.78              |
| 8-Nov-23  | 6.56   | <u>9.11E-04</u> | <u>6.07E-04</u> | <u>1.52E-03</u> | <u>6.07E-04</u> | 3.80E-02 | 1.59E-01 | <u>9.11E-04</u> | 6.31E-03 | <u>9.11E-04</u> | <u>3.04E-03</u> | <u>1.52E-03</u> | 9.89E-03 | 1.83              |
| 14-Nov-23   |        |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          | 4.57              |
| 20-Nov-23   | 13.80  | <u>9.63E-04</u> | <u>6.42E-04</u> | <u>1.60E-03</u> | <u>6.42E-04</u> | 4.77E-02 | 2.52E-01 | <u>9.63E-04</u> | 7.00E-03 | <u>9.63E-04</u> | <u>3.21E-03</u> | <u>1.60E-03</u> | 9.75E-03 | 9.94              |
| 26-Nov-23   | 42.39  | <u>8.71E-04</u> | <u>5.81E-04</u> | <u>1.45E-03</u> | <u>5.81E-04</u> | 7.14E-02 | 7.37E-01 | 2.61E-03        | 2.47E-02 | 2.21E-03        | <u>2.90E-03</u> | <u>1.45E-03</u> | 3.43E-02 | 5.90              |
| 2-Dec-23  | 113.40 | <u>9.10E-04</u> | <u>6.06E-04</u> | <u>1.52E-03</u> | <u>6.06E-04</u> | 5.76E-02 | 2.23E+00 | <u>9.10E-04</u> | 5.43E-02 | 3.76E-03        | 9.70E-03        | 3.46E-03        | 1.53E-02 | 7.53              |
| 8-Dec-23  | 31.97  | <u>9.81E-04</u> | <u>6.54E-04</u> | <u>1.63E-03</u> | <u>6.54E-04</u> | 1.00E-01 | 3.12E-01 | 3.14E-03        | 1.91E-02 | <u>9.81E-04</u> | <u>3.27E-03</u> | <u>1.63E-03</u> | 3.00E-02 | 9.60              |
| 14-Dec-23   | 25.92  | <u>9.60E-04</u> | <u>6.40E-04</u> | <u>1.60E-03</u> | <u>6.40E-04</u> | 8.58E-02 | 4.58E-01 | 3.97E-03        | 2.25E-02 | <u>9.60E-04</u> | <u>3.20E-03</u> | <u>1.60E-03</u> | 3.08E-02 | 2.87              |
| 20-Dec-23   | 88.16  | <u>9.45E-04</u> | <u>6.30E-04</u> | <u>1.70E-03</u> | <u>6.30E-04</u> | 8.82E-02 | 2.05E+00 | <u>9.45E-04</u> | 4.51E-02 | 3.97E-03        | <u>3.15E-03</u> | <u>1.70E-03</u> | 2.40E-02 | 6.03              |
| 26-Dec-23   | 7.11   | <u>9.70E-04</u> | <u>6.46E-04</u> | <u>1.62E-03</u> | <u>6.46E-04</u> | 6.79E-02 | 8.27E-02 | <u>9.70E-04</u> | 1.87E-03 | <u>9.70E-04</u> | <u>3.23E-03</u> | <u>1.62E-03</u> | 3.88E-03 | 4.53              |
| <b>Arithmetic Mean</b>                            | 29.54  | 9.29E-04        | 6.19E-04        | 1.97E-03        | 6.19E-04        | 6.79E-02 | 5.47E-01 | 1.46E-03        | 1.62E-02 | 1.48E-03        | 3.61E-03        | 1.66E-03        | 1.51E-02 | 5.03              |
| <b>Geometric Mean</b>                             | 16.91  | 9.28E-04        | 6.19E-04        | 1.74E-03        | 6.19E-04        | 6.54E-02 | 2.46E-01 | 1.23E-03        | 8.35E-03 | 1.24E-03        | 3.38E-03        | 1.76E-03        | 1.13E-02 | 3.87              |
| <b>Max Sample</b>                                 | 113.40 | 9.81E-04        | 6.54E-04        | 7.05E-03        | 6.54E-04        | 1.00E-01 | 2.23E+00 | 3.97E-03        | 5.43E-02 | 3.97E-03        | 9.70E-03        | 3.72E-03        | 3.43E-02 | 10.89             |
| <b>Min Sample</b>                                 | 3.00   | 8.71E-04        | 5.81E-04        | 1.45E-03        | 5.81E-04        | 3.80E-02 | 4.44E-02 | 8.88E-04        | 1.55E-03 | 8.88E-04        | 2.90E-03        | 1.45E-03        | 3.16E-03 | 0.67              |
| <b>AAQC Limit</b>                                 | 120    | 0.3             | 0.025           | 0.5             | 0.1             | 50       | 4        | 0.5             | 0.4      | 0.2             | 10              | 2               | 120      | 27                |
| <b>No. &gt; AAQC Limit</b>                        | 0      | 0               | 0               | 0               | 0               | 0        | 0        | 0               | 0        | 0               | 0               | 0               | 0        | 0                 |
| <b>No. Valid Samples</b>                          | 13     | 13              | 13              | 13              | 13              | 13       | 13       | 13              | 13       | 13              | 13              | 13              | 13       | 15                |
| <b>MDL (µg)</b>                                   | 2,300  | 3               | 2               | 5               | 2               | 4        | 20       | 3               | 1        | 3               | 10              | 5               | 5        | 15                |
| <b>No. &lt; MDL</b>                               | 0      | 13              | 13              | 12              | 13              | 0        | 0        | 10              | 0        | 10              | 12              | 11              | 0        | 0                 |
| <b>% of Valid Samples</b>                         | 87%    | 87%             | 87%             | 87%             | 87%             | 87%      | 87%      | 87%             | 87%      | 87%             | 87%             | 87%             | 87%      | 100%              |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

| Northwest Station Monitoring Results             |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
|--|-------|-----------------|-----------------|-----------------|-----------------|----------|----------|-----------------|----------|-----------------|-----------------|-----------------|----------|-------------------|
| (concentrations expressed in µg/m <sup>3</sup> ) |       |                 |                 |                 |                 |          |          |                 |          |                 |                 |                 |          |                   |
| Date   | TSP   | As              | Cd              | Cr              | Co              | Cu       | Fe       | Pb              | Mn       | Ni              | Se              | V               | Zn       | PM <sub>2.5</sub> |
| 3-Oct-23   | 52.21 | <u>9.63E-04</u> | <u>6.42E-04</u> | <u>1.61E-03</u> | <u>6.42E-04</u> | 2.54E-01 | 5.18E-01 | <u>9.63E-04</u> | 2.27E-02 | <u>9.63E-04</u> | <u>3.21E-03</u> | <u>1.61E-03</u> | 1.32E-02 | 12.40             |
| 9-Oct-23   | 7.66  | <u>9.50E-04</u> | <u>6.33E-04</u> | <u>1.58E-03</u> | <u>6.33E-04</u> | 2.36E-01 | 8.36E-02 | <u>9.50E-04</u> | 2.28E-03 | <u>9.50E-04</u> | <u>3.17E-03</u> | <u>1.58E-03</u> | 4.24E-03 | 1.87              |
| 15-Oct-23  | 14.05 | <u>9.45E-04</u> | <u>6.30E-04</u> | <u>1.57E-03</u> | <u>6.30E-04</u> | 2.65E-01 | 1.30E-01 | <u>9.45E-04</u> | 4.28E-03 | <u>9.45E-04</u> | <u>3.15E-03</u> | <u>1.57E-03</u> | 6.80E-03 | 2.91              |
| 21-Oct-23  | 11.96 | <u>9.70E-04</u> | <u>6.47E-04</u> | <u>1.62E-03</u> | <u>6.47E-04</u> | 2.48E-01 | 1.19E-01 | <u>9.70E-04</u> | 3.49E-03 | <u>9.70E-04</u> | <u>3.23E-03</u> | <u>1.62E-03</u> | 5.24E-03 | 3.87              |
| 27-Oct-23  | 4.12  | <u>8.70E-04</u> | <u>5.80E-04</u> | <u>1.45E-03</u> | <u>5.80E-04</u> | 1.16E-01 | 5.68E-02 | <u>8.70E-04</u> | 1.57E-03 | <u>8.70E-04</u> | <u>2.90E-03</u> | <u>1.45E-03</u> | 4.12E-03 | 1.17              |
| 2-Nov-23   | 14.06 | <u>9.99E-04</u> | <u>6.66E-04</u> | <u>1.67E-03</u> | <u>6.66E-04</u> | 1.76E-01 | 1.34E-01 | <u>9.99E-04</u> | 3.33E-03 | <u>9.99E-04</u> | <u>3.33E-03</u> | <u>1.67E-03</u> | 8.13E-03 | 4.37              |
| 8-Nov-23   | 12.05 | <u>9.36E-04</u> | <u>6.24E-04</u> | <u>1.56E-03</u> | <u>6.24E-04</u> | 8.62E-02 | 1.70E-01 | <u>9.36E-04</u> | 6.37E-03 | <u>9.36E-04</u> | <u>3.12E-03</u> | <u>1.56E-03</u> | 9.86E-03 | 17.35             |
| 14-Nov-23  | 9.59  | <u>9.40E-04</u> | <u>6.27E-04</u> | <u>1.57E-03</u> | <u>6.27E-04</u> | 1.03E-01 | 2.88E-01 | <u>9.40E-04</u> | 1.48E-02 | <u>9.40E-04</u> | <u>3.13E-03</u> | <u>1.57E-03</u> | 7.33E-03 | 13.48             |
| 20-Nov-23  | 17.17 | <u>9.47E-04</u> | <u>6.31E-04</u> | <u>1.58E-03</u> | <u>6.31E-04</u> | 1.31E-01 | 3.78E-01 | <u>9.47E-04</u> | 9.78E-03 | <u>9.47E-04</u> | <u>3.16E-03</u> | <u>1.58E-03</u> | 9.53E-03 | 4.37              |
| 26-Nov-23  | 24.88 | <u>9.12E-04</u> | <u>6.08E-04</u> | <u>1.52E-03</u> | <u>6.08E-04</u> | 1.13E-01 | 3.72E-01 | <u>9.12E-04</u> | 1.08E-02 | <u>9.12E-04</u> | <u>3.04E-03</u> | <u>1.52E-03</u> | 1.64E-02 | 4.49              |
| 2-Dec-23   | 99.72 | <u>9.59E-04</u> | <u>6.39E-04</u> | <u>1.54E-03</u> | <u>6.39E-04</u> | 1.18E-01 | 2.85E+00 | 3.64E-03        | 8        |                 |                 |                 |          |                   |

|                            |        |          |          |          |          |          |          |          |          |          |          |          |          |       |
|----------------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|
| <b>Geometric Mean</b>      | 19.57  | 1.10E-03 | 6.27E-04 | 2.00E-03 | 6.73E-04 | 1.36E-01 | 2.80E-01 | 1.38E-03 | 9.92E-03 | 1.25E-03 | 3.32E-03 | 1.86E-03 | 1.08E-02 | 4.09  |
| <b>Max Sample</b>          | 199.20 | 9.14E-03 | 6.66E-04 | 9.87E-03 | 1.77E-03 | 2.65E-01 | 4.96E+00 | 2.64E-02 | 1.85E-01 | 1.22E-02 | 7.67E-03 | 6.46E-03 | 1.69E-01 | 17.35 |
| <b>Min Sample</b>          | 4.12   | 8.70E-04 | 5.80E-04 | 1.45E-03 | 5.80E-04 | 5.99E-02 | 5.68E-02 | 8.70E-04 | 1.57E-03 | 8.70E-04 | 2.90E-03 | 1.45E-03 | 3.71E-03 | 0.31  |
| <b>AAQC Limit</b>          | 120    | 0.3      | 0.025    | 0.5      | 0.1      | 50       | 4        | 0.5      | 0.4      | 0.2      | 10       | 2        | 120      | 27    |
| <b>No. &gt; AAQC Limit</b> | 1      | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0     |
| <b>No. Valid Samples</b>   | 15     | 15       | 15       | 15       | 15       | 15       | 15       | 15       | 15       | 15       | 15       | 15       | 15       | 15    |
| <b>MDL (µg)</b>            | 2,300  | 3        | 2        | 5        | 2        | 4        | 20       | 3        | 1        | 3        | 10       | 5        | 5        | 15    |
| <b>No. &lt; MDL</b>        | 0      | 14       | 15       | 13       | 14       | 0        | 0        | 12       | 0        | 13       | 14       | 13       | 0        | 0     |
| <b>% of Valid Samples</b>  | 100%   | 100%     | 100%     | 100%     | 100%     | 100%     | 100%     | 100%     | 100%     | 100%     | 100%     | 100%     | 100%     | 100%  |

All non-detectable results (i.e., < MDL) are reported as ½ MDL and are denoted by italics and underlining.

## APPENDIX A-2: TOTAL DUSTFALL SAMPLING RESULTS

**Dustfall Sampling Results**

| <b>Tait Road Station Monitoring Results</b>                  |                          |                           |                         |                       |                       |                          |
|--|--------------------------|---------------------------|-------------------------|-----------------------|-----------------------|--------------------------|
| <b>(concentrations expressed in g/m<sup>2</sup>/30 days)</b> |                          |                           |                         |                       |                       |                          |
| <b>Month</b>   | <b>No. Exposure Days</b> | <b>Insoluble Dustfall</b> | <b>Soluble Dustfall</b> | <b>Total Dustfall</b> | <b>Fixed Dustfall</b> | <b>Volatile Dustfall</b> |
| October  | 31                       | 1.08                      | <u>0.15</u>             | 1.08                  | 0.69                  | 0.36                     |
| November   | 30                       | 1.92                      | 0.36                    | 2.28                  | 1.77                  | 0.51                     |
| December   | 31                       | 1.2                       | <u>0.165</u>            | 1.20                  | 1.17                  | 0.15                     |
|  |                          | Arithmetic Mean           |                         | 1.52                  | 1.21                  | 0.34                     |
|  |                          | Max Monthly               |                         | 2.28                  | 1.77                  | 0.51                     |
|  |                          | Min Monthly               |                         | 1.08                  | 0.69                  | 0.15                     |
|  |                          | Dustfall AAQC             |                         | 7                     | -                     | -                        |
|  |                          | No. > AAQC                |                         | 0                     | -                     | -                        |
|  |                          | MDL                       |                         | 0.3                   | 0.3                   | 0.3                      |
|  |                          | No. < MDL                 |                         | 0                     | 0                     | 0                        |
|  |                          | No. Valid Samples         |                         | 3                     | 3                     | 3                        |
|  |                          | % Valid Samples           |                         | 100%                  | 100%                  | 100%                     |

### Gallinger Road Station Monitoring Results

(concentrations expressed in g/m<sup>2</sup>/30 days)

| Month    | No. Exposure Days | Insoluble Dustfall | Soluble Dustfall | Total Dustfall | Fixed Dustfall | Volatile Dustfall |
|----------|-------------------|--------------------|------------------|----------------|----------------|-------------------|
| October  | 31                | <u>0.15</u>        | <u>0.15</u>      | <u>0.315</u>   | <u>0.315</u>   | <u>0.15</u>       |
| November | 30                | 1.38               | <u>0.165</u>     | 1.38           | 1.2            | 0.15              |
| December | 31                | 1.2                | 0.54             | 1.74           | 1.08           | 0.66              |
|          |                   | Arithmetic Mean    |                  | 1.145          | 0.865          | 0.32              |
|          |                   | Max Monthly        |                  | 1.74           | 1.2            | 0.66              |
|          |                   | Min Monthly        |                  | 0.32           | 0.32           | 0.15              |
|          |                   | Dustfall AAQC      |                  | 7              | -              | -                 |
|          |                   | No. > AAQC         |                  | 0              | -              | -                 |
|          |                   | MDL                |                  | 0.3            | 0.3            | 0.3               |
|          |                   | No. < MDL          |                  | 1              | 1              | 1                 |
|          |                   | No. Valid Samples  |                  | 3              | 3              | 3                 |
|          |                   | % Valid Samples    |                  | 100%           | 100%           | 100%              |

### Northwest Station Monitoring Results

(concentrations expressed in g/m<sup>2</sup>/30 days)

| Month    | No. Exposure Days | Insoluble Dustfall | Soluble Dustfall | Total Dustfall | Fixed Dustfall | Volatile Dustfall |
|----------|-------------------|--------------------|------------------|----------------|----------------|-------------------|
| October  | 31                | 0.39               | <u>0.15</u>      | <u>0.33</u>    | <u>0.33</u>    | 0.39              |
| November | 30                | 0.36               | <u>0.165</u>     | <u>0.33</u>    | <u>0.33</u>    | <u>0.36</u>       |
| December | 31                | <u>0.165</u>       | <u>0.39</u>      | <u>0.33</u>    | <u>0.33</u>    | 0.39              |
|          |                   | Arithmetic Mean    |                  | 0.33           | 0.33           | 0.38              |
|          |                   | Max Monthly        |                  | 0.33           | 0.33           | 0.39              |
|          |                   | Min Monthly        |                  | 0.33           | 0.33           | 0.36              |
|          |                   | Dustfall AAQC      |                  | 7              | -              | -                 |
|          |                   | No. > AAQC         |                  | 0              | -              | -                 |
|          |                   | MDL                |                  | 0.3            | 0.3            | 0.3               |
|          |                   | No. < MDL          |                  | 3              | 3              | 1                 |
|          |                   | No. Valid Samples  |                  | 3              | 3              | 3                 |
|          |                   | % Valid Samples    |                  | 100%           | 100%           | 100%              |

## APPENDIX A-3: SO<sub>2</sub> AND NO<sub>2</sub> PASSIVE SAMPLING RESULTS

**SO2 and NO2 Sampling Results**

| <b>Tait Road Station</b>     |                       |                       |
|------------------------------|-----------------------|-----------------------|
| (concentrations expressed in |                       |                       |
| <b>Month</b>                 | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| October                      | 0.52                  | 2.44                  |
| November                     | <u>0.13</u>           | 1.32                  |
| December                     | <u>0.13</u>           | 1.88                  |
| Arithmetic Mean              | 0.26                  | 1.88                  |
| Max Monthly Concentration    | 0.52                  | 2.44                  |
| Min Monthly Concentration    | 0.13                  | 1.32                  |
| Comparison Limit             | 30                    | 78                    |
| No. > Limit                  | 0                     | 0                     |
| MDL                          | 0.26                  | 0.19                  |
| No. < MDL                    | 2                     | 0                     |
| No. Valid Samples            | 3                     | 3                     |
| % Valid Samples              | 100%                  | 100%                  |

| <b>Gallinger Road Station</b> |                       |                       |
|-------------------------------|-----------------------|-----------------------|
| (concentrations expressed in  |                       |                       |
| <b>Month</b>                  | <b>SO<sub>2</sub></b> | <b>NO<sub>2</sub></b> |
| October                       | <u>0.13</u>           | 0.56                  |
| November                      | <u>0.13</u>           | 3.38                  |
| December                      | 0.52                  | 1.50                  |
| Arithmetic Mean               | 0.26                  | 1.82                  |
| Max Monthly Concentration     | 0.52                  | 3.38                  |



|                           |      |      |
|---------------------------|------|------|
| Min Monthly Concentration | 0.13 | 0.56 |
| Comparison Limit          | 30   | 78   |
| No. > Limit               | 0    | 0    |
| MDL                       | 0.26 | 0.19 |
| No. < MDL                 | 2    | 0    |
| No. Valid Samples         | 3    | 3    |
| % Valid Samples           | 100% | 100% |

# **APPENDIX B: NOTICE OF EXCEEDANCES FOR Q4 2023**

# **APPENDIX C: LABORATORY RESULTS**



New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 10-NOV-23  
Report Date: 04-DEC-23 15:15 (MT)  
Version: FINAL

Client Phone: 807-234-8200

## Certificate of Analysis

Lab Work Order #: L2753528  
Project P.O. #: 4500059107  
Job Reference:  
C of C Numbers:  
Legal Site Desc:

  
\_\_\_\_\_  
Claire Kocharakkal, B.Sc.  
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567  
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753528-1 NORTH-TSP-508<br>Sampled By: Client on 03-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 75100  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 130    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 869    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 35.8   |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 23.9   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-2 NORTH-TSP-509<br>Sampled By: Client on 09-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 8500   |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 121    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 87     |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 2.6    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 5.3    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-3 NORTH-TSP-510<br>Sampled By: Client on 15-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 17400  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 131    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 200    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 7.7    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 13.1   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753528-4 NORTH-TSP-511<br>Sampled By: Client on 21-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 16400  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 115    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 75     |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 3.0    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 9.0    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-5 NORTH-TSP-512<br>Sampled By: Client on 27-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 5000   |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 110    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 80     |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 3.0    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 8.5    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-6 SOUTH-TSP-508<br>Sampled By: Client on 03-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 74600  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 105    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 945    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 37.5   |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 24.9   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753528-7 SOUTH-TSP-509<br>Sampled By: Client on 09-OCT-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 113000 |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | 7.4    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 172    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 2160   |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 83.7   |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | 3.7    |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | 4.6    |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 44.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-8 SOUTH-TSP-510<br>Sampled By: Client on 15-OCT-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 170000 |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | 5.3    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 156    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 1460   |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 61.7   |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | 3.3    |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | 7.4    |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 36.2   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-9 SOUTH-TSP-511<br>Sampled By: Client on 21-OCT-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 29800  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | 148    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 307    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | 14.6   |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | 10.4   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2753528-10 SOUTH-TSP-512<br>Sampled By: Client on 27-OCT-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 13000  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)   | 127    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)   | 206    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)  | 7.7    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)   | 12.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-11 NORTHWEST-TSP-508<br>Sampled By: Client on 03-OCT-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 81300  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)   | 396    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)   | 806    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)  | 35.3   |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)   | 20.5   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-12 NORTHWEST-TSP-509<br>Sampled By: Client on 09-OCT-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 12100  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)   | 372    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)   | 132    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)  | 3.6    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)   | 6.7    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2753528-13 NORTHWEST-TSP-510<br>Sampled By: Client on 15-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 22300  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)   | 421    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)   | 207    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)  | 6.8    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)   | 10.8   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-14 NORTHWEST-TSP-511<br>Sampled By: Client on 21-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 18500  |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)   | 383    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)   | 184    |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)  | 5.4    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)   | 8.1    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-15 NORTHWEST-TSP-512<br>Sampled By: Client on 27-OCT-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 7100   |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)   | 200    |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)   | 98     |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)  | 2.7    |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)   | 7.1    |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753528-16 TSP-OCTOBER TRIP BLANK<br>Sampled By: Client on 31-OCT-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 3000   |            | 2300 | ug    |           | 21-NOV-23 | R5971298 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Copper (Cu)  | <4.0   |            | 4.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Iron (Fe)  | 26     |            | 20   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Manganese (Mn)   | <1.0   |            | 1.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| Zinc (Zn)  | <5.0   |            | 5.0  | ug    | 27-NOV-23 | 29-NOV-23 | R5971998 |
| L2753528-17 NORTH-PM2.5-508<br>Sampled By: Client on 03-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 262    |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-18 NORTH-PM2.5-509<br>Sampled By: Client on 09-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 16     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-19 NORTH-PM2.5-510<br>Sampled By: Client on 15-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 28     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-20 NORTH-PM2.5-511<br>Sampled By: Client on 21-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 85     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-21 NORTH-PM2.5-512<br>Sampled By: Client on 27-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 39     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-22 SOUTH-PM2.5-508<br>Sampled By: Client on 03-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate          | 169    |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-23 SOUTH-PM2.5-509<br>Sampled By: Client on 09-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                               |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753528-23 SOUTH-PM2.5-509<br>Sampled By: Client on 09-OCT-23<br>Matrix: 47mm Filter<br>Total particulate   | 125    |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-24 SOUTH-PM2.5-510<br>Sampled By: Client on 15-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 146    |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-25 SOUTH-PM2.5-511<br>Sampled By: Client on 21-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 95     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-26 SOUTH-PM2.5-512<br>Sampled By: Client on 27-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate            | 37     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-27 NORTHWEST-PM2.5-508<br>Sampled By: Client on 03-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 298    |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-28 NORTHWEST-PM2.5-509<br>Sampled By: Client on 09-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 45     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-29 NORTHWEST-PM2.5-510<br>Sampled By: Client on 15-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 70     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-30 NORTHWEST-PM2.5-511<br>Sampled By: Client on 21-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 93     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-31 NORTHWEST-PM2.5-512<br>Sampled By: Client on 27-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate        | 28     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
| L2753528-32 PM2.5-OCTOBER TRAVEL BLANK<br>Sampled By: Client on 31-OCT-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 23     |            | 15   | ug    |           | 04-DEC-23 | R5972157 |
|  |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

**Test Method References:**

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

**Chain of Custody Numbers:**
**GLOSSARY OF REPORT TERMS**

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample  
mg/kg wwt - milligrams per kilogram based on wet weight of sample  
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight  
mg/L - unit of concentration based on volume, parts per million.  
< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*



## Quality Control Report

Workorder: L2753528

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Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5971998</b> |                   |        |           |       |     |        |           |
| <b>WG3787741-3</b>     | <b>DUP</b>      | <b>L2753528-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Copper (Cu)            |                 | 130               | 122    |           | ug    | 5.7 | 20     | 29-NOV-23 |
| Iron (Fe)              |                 | 869               | 779    |           | ug    | 11  | 25     | 29-NOV-23 |
| Manganese (Mn)         |                 | 35.8              | 33.4   |           | ug    | 6.9 | 20     | 29-NOV-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 29-NOV-23 |
| Zinc (Zn)              |                 | 23.9              | 22.9   |           | ug    | 4.2 | 20     | 29-NOV-23 |
| <b>WG3787741-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 100.0  |           | %     |     | 80-120 | 29-NOV-23 |
| Cadmium (Cd)           |                 |                   | 102.0  |           | %     |     | 80-120 | 29-NOV-23 |
| Cobalt (Co)            |                 |                   | 96.8   |           | %     |     | 80-120 | 29-NOV-23 |
| Chromium (Cr)          |                 |                   | 97.3   |           | %     |     | 80-120 | 29-NOV-23 |
| Copper (Cu)            |                 |                   | 98.0   |           | %     |     | 80-120 | 29-NOV-23 |
| Iron (Fe)              |                 |                   | 100.6  |           | %     |     | 80-120 | 29-NOV-23 |
| Manganese (Mn)         |                 |                   | 96.6   |           | %     |     | 80-120 | 29-NOV-23 |
| Nickel (Ni)            |                 |                   | 96.4   |           | %     |     | 80-120 | 29-NOV-23 |
| Lead (Pb)              |                 |                   | 101.0  |           | %     |     | 80-120 | 29-NOV-23 |
| Selenium (Se)          |                 |                   | 102.0  |           | %     |     | 80-120 | 29-NOV-23 |
| Vanadium (V)           |                 |                   | 96.3   |           | %     |     | 80-120 | 29-NOV-23 |
| Zinc (Zn)              |                 |                   | 99.5   |           | %     |     | 80-120 | 29-NOV-23 |
| <b>WG3787741-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 29-NOV-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 29-NOV-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 29-NOV-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 29-NOV-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 29-NOV-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 29-NOV-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 29-NOV-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 29-NOV-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 29-NOV-23 |



## Quality Control Report

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| Test                       | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>     |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5971998</b> |                    |        |           |       |     |        |           |
| <b>WG3787741-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Selenium (Se)              |                 |                    | <1.3   |           | ug    |     | 1.25   | 29-NOV-23 |
| Vanadium (V)               |                 |                    | <5.0   |           | ug    |     | 10     | 29-NOV-23 |
| Zinc (Zn)                  |                 |                    | <4.5   |           | ug    |     | 4.5    | 29-NOV-23 |
| <b>WG3787741-4</b>         | <b>MS</b>       | <b>L2753528-1</b>  |        |           |       |     |        |           |
| Arsenic (As)               |                 |                    | 98.8   |           | %     |     | 75-125 | 29-NOV-23 |
| Cadmium (Cd)               |                 |                    | 100.6  |           | %     |     | 75-125 | 29-NOV-23 |
| Cobalt (Co)                |                 |                    | 95.5   |           | %     |     | 75-125 | 29-NOV-23 |
| Chromium (Cr)              |                 |                    | 96.3   |           | %     |     | 75-125 | 29-NOV-23 |
| Copper (Cu)                |                 |                    | N/A    | MS-B      | %     |     | -      | 29-NOV-23 |
| Iron (Fe)                  |                 |                    | N/A    | MS-B      | %     |     | -      | 29-NOV-23 |
| Manganese (Mn)             |                 |                    | 91.4   |           | %     |     | 75-125 | 29-NOV-23 |
| Nickel (Ni)                |                 |                    | 94.8   |           | %     |     | 75-125 | 29-NOV-23 |
| Lead (Pb)                  |                 |                    | 94.4   |           | %     |     | 75-125 | 29-NOV-23 |
| Selenium (Se)              |                 |                    | 104.3  |           | %     |     | 75-125 | 29-NOV-23 |
| Vanadium (V)               |                 |                    | 94.7   |           | %     |     | 75-125 | 29-NOV-23 |
| Zinc (Zn)                  |                 |                    | 96.5   |           | %     |     | 75-125 | 29-NOV-23 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5971298</b> |                    |        |           |       |     |        |           |
| <b>WG3787633-3</b>         | <b>DUP</b>      | <b>L2753528-1</b>  |        |           |       |     |        |           |
| Total particulate          |                 | 75100              | 75100  |           | ug    | 0.0 | 5      | 21-NOV-23 |
| <b>WG3787633-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <100   |           | ug    |     | 100    | 21-NOV-23 |
| <b>PART-M212 F-GRAV-BU</b> |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5972157</b> |                    |        |           |       |     |        |           |
| <b>WG3787771-3</b>         | <b>DUP</b>      | <b>L2753528-17</b> |        |           |       |     |        |           |
| Total particulate          |                 | 262                | 262    |           | ug    | 0.0 | 10     | 04-DEC-23 |
| <b>WG3787771-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <15    |           | ug    |     | 15     | 04-DEC-23 |

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description  |
|-----------|--|
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

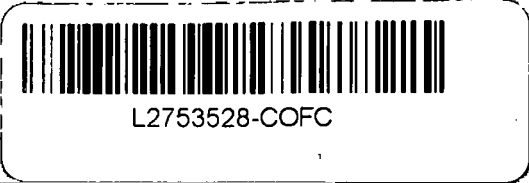
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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody / Analytical Request Form  
 1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
 Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com



| Report To                                      |   | Report Format / Distribution       |                 |             | Service Requested  |        |                         |                         |                      |                      |
|--|---|------------------------------------|-----------------|-------------|--|--------|-------------------------|-------------------------|----------------------|----------------------|
| Company: I New Gold Inc.                       |   |                                    |                 |             | Regular Service  |        |                         |                         |                      |                      |
| Contact: I Robyn Lloyd                         |   |                                    |                 |             | Rush Service (with prior consultation) - surcharge applies |        |                         |                         |                      |                      |
| Address: I 1361 Roen Road, Chapple, ON P0W 1A0 |   | Email 1: I robyn.lloyd@newgold.com |                 |             | Other - Please contact ALS                                 |        |                         |                         |                      |                      |
| Phone: I 807-234-8200 ext. 8029 Fax:           |   | Email 2: I                         |                 |             | Analysis Request   |        |                         |                         |                      |                      |
| Invoice To: Same as Report                     |   | Client / Project Information       |                 |             | TSP and Metals   |        |                         |                         |                      |                      |
| Company: I                                     |   | Job #: I Air Quality               |                 |             | Pm 2.5   |        |                         |                         |                      |                      |
| Contact: I                                     |   | Location: I                        |                 |             | Dustfall Incl. volatile                                    |        |                         |                         |                      |                      |
| Address: I                                     |   | PO: I 4500059107                   |                 |             | Hazardous? Provide Detg                                    |        |                         |                         |                      |                      |
| Phone: I Fax:                                  |   | Sampled by: I                      |                 |             | Highly Contaminated?                                       |        |                         |                         |                      |                      |
| Lab Work Order #                               |   | ALS Contact:                       |                 |             | Number of Containers                                       |        |                         |                         |                      |                      |
| Sample #                                       | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)                 | Time<br>(hh:mm) | Sample Type | TSP  | Pm 2.5 | Dustfall Incl. volatile | Hazardous? Provide Detg | Highly Contaminated? | Number of Containers |
|  | NORTH-TSP-508   | 3-Oct-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-508   | 3-Oct-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-508   | 3-Oct-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-509   | 9-Oct-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-509   | 9-Oct-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-509   | 9-Oct-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-510   | 15-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-510   | 15-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-510   | 15-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-511   | 21-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-511   | 21-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-511   | 21-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-512   | 27-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-512   | 27-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-512   | 27-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | TRIP BLANK - October TSP  | 31-Oct-2023                        | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-PM2.5-508   | 3-Oct-2023                         | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-508   | 3-Oct-2023                         | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-508   | 3-Oct-2023                         | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-509   | 9-Oct-2023                         | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-509   | 9-Oct-2023                         | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-509   | 9-Oct-2023                         | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-510   | 15-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-510   | 15-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-510   | 15-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-511   | 21-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-511   | 21-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-511   | 21-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-512   | 27-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-512   | 27-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-512   | 27-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | TRIP BLANK - October- PM2.5   | 31-Oct-2023                        | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | Dustfall- Northwest   | 31-Oct-2023                        | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - Trip Blank   | 31-Oct-2023                        | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - North  | 31-Oct-2023                        | 12:00           | Air         |  |        | X                       |                         |                      |                      |
|  | Dustfall - South  | 31-Oct-2023                        | 12:00           | Air         |  |        | X                       |                         |                      |                      |

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

|              |                 |              |              |             |       |              |              |       |       |                              |
|--------------|-----------------|--------------|--------------|-------------|-------|--------------|--------------|-------|-------|------------------------------|
| Released by: | Date (dd-mm-yy) | Time (hh:mm) | Received by: | Date:       | Time: | Temperature: | Verified by: | Date: | Time: | Observations:                |
|              |                 |              | ARRAN BURTON | 10-Nov 2023 | 8:30  | 15.0 °C      |              |       |       | Yes / No ?<br>If Yes add SIF |





New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 07-DEC-23  
Report Date: 02-JAN-24 12:50 (MT)  
Version: FINAL

Client Phone: 807-234-8200

## Certificate of Analysis

Lab Work Order #: L2753895  
Project P.O. #: 4500059107  
Job Reference:  
C of C Numbers:  
Legal Site Desc:

  
\_\_\_\_\_  
Claire Kocharakkal, B.Sc.  
Project Manager

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753895-1 NORTH-TSP-513<br>Sampled By: Client on 02-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 40600  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 62.6   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 860    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 29.8   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 26.2   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-2 NORTH-TSP-514<br>Sampled By: Client on 08-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 10800  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 62.6   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 262    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 10.4   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 16.3   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-3 NORTH-TSP-515<br>Sampled By: Client on 14-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 23200  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 53.6   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 504    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 31.0   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | 4.4    |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 25.5   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753895-4 NORTH-TSP-516<br>Sampled By: Client on 20-NOV-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 21500  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 74.3   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 393    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 10.9   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 15.2   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-5 NORTH-TSP-517<br>Sampled By: Client on 26-NOV-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 73000  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 123    |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 1270   |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 42.5   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | 3.8    |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | 4.5    |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 59.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-6 SOUTH-TSP-513<br>Sampled By: Client on 02-NOV-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 26300  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 63.5   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 396    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 10.4   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 13.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2753895-7 SOUTH-TSP-514<br>Sampled By: Client on 08-NOV-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 17300  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 83.7   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 248    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 7.8    |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 12.9   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-8 SOUTH-TSP-515<br>Sampled By: Client on 14-NOV-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 18400  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 78.8   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 554    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 27.8   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 11.8   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-9 SOUTH-TSP-516<br>Sampled By: Client on 20-NOV-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 26100  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)  | 95.0   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)  | 662    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)   | 14.9   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)  | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)  | 14.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2753895-10 SOUTH-TSP-517<br>Sampled By: Client on 26-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate     | 105000 |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)   | 155    |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)   | 1930   |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)  | 54.5   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)   | 3.8    |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)   | 4.2    |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)   | 46.8   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-11 NORTHWEST-TSP-513<br>Sampled By: Client on 02-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 21100  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)   | 264    |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)   | 201    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)  | 5.0    |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)   | 12.2   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-12 NORTHWEST-TSP-514<br>Sampled By: Client on 08-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 19300  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)   | 138    |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)   | 272    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)  | 10.2   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)   | 15.8   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2753895-13 NORTHWEST-TSP-515<br>Sampled By: Client on 14-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 15300  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)   | 165    |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)   | 459    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)  | 23.6   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)   | 11.7   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-14 NORTHWEST-TSP-516<br>Sampled By: Client on 20-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 27200  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)   | 208    |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)   | 599    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)  | 15.5   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)   | 15.1   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-15 NORTHWEST-TSP-517<br>Sampled By: Client on 26-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 40900  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)   | 186    |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)   | 612    |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)  | 17.8   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)   | 26.9   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2753895-16 TSP-NOVEMBER TRAVEL BLANK<br>Sampled By: Client on 30-NOV-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 14-DEC-23 | R5972776 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Copper (Cu)   | <4.0   |            | 4.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Iron (Fe)   | 43     |            | 20   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Manganese (Mn)  | <1.0   |            | 1.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Selenium (Se)   | <10    |            | 10   | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| Zinc (Zn)   | <5.0   |            | 5.0  | ug    | 27-DEC-23 | 28-DEC-23 | R5973537 |
| L2753895-17 NORTH-PM2.5-513<br>Sampled By: Client on 02-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 115    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-18 NORTH-PM2.5-514<br>Sampled By: Client on 08-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 44     |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-19 NORTH-PM2.5-515<br>Sampled By: Client on 14-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 110    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-20 NORTH-PM2.5-516<br>Sampled By: Client on 20-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 239    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-21 NORTH-PM2.5-517<br>Sampled By: Client on 26-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 142    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-22 SOUTH-PM2.5-513<br>Sampled By: Client on 02-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 102    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-23 SOUTH-PM2.5-514<br>Sampled By: Client on 08-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                                  |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2753895-23 SOUTH-PM2.5-514<br>Sampled By: Client on 08-NOV-23<br>Matrix: 47mm Filter<br>Total particulate  | 37     |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-24 SOUTH-PM2.5-515<br>Sampled By: Client on 14-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 90     |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-25 SOUTH-PM2.5-516<br>Sampled By: Client on 20-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 182    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-26 SOUTH-PM2.5-517<br>Sampled By: Client on 26-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate             | 153    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-27 NORTHWEST-PM2.5-513<br>Sampled By: Client on 02-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 105    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-28 NORTHWEST-PM2.5-514<br>Sampled By: Client on 08-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 417    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-29 NORTHWEST-PM2.5-515<br>Sampled By: Client on 14-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 324    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-30 NORTHWEST-PM2.5-516<br>Sampled By: Client on 20-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 105    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-31 NORTHWEST-PM2.5-517<br>Sampled By: Client on 26-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate         | 108    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
| L2753895-32 PM2.5-NOVEMBER TRAVEL BLANK<br>Sampled By: Client on 30-NOV-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <15    |            | 15   | ug    |           | 15-DEC-23 | R5972882 |
|   |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## Reference Information

### Test Method References:

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*



## Quality Control Report

Workorder: L2753895

Report Date: 02-JAN-24

Page 1 of 3

Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test                   | Matrix          | Reference         | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b> |                 | <b>Filter</b>     |        |           |       |     |        |           |
| <b>Batch</b>           | <b>R5973537</b> |                   |        |           |       |     |        |           |
| <b>WG3787996-3</b>     | <b>DUP</b>      | <b>L2753895-1</b> |        |           |       |     |        |           |
| Arsenic (As)           |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Cadmium (Cd)           |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Cobalt (Co)            |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Chromium (Cr)          |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Copper (Cu)            |                 | 62.6              | 65.7   |           | ug    | 4.9 | 20     | 28-DEC-23 |
| Iron (Fe)              |                 | 860               | 878    |           | ug    | 2.1 | 25     | 28-DEC-23 |
| Manganese (Mn)         |                 | 29.8              | 30.0   |           | ug    | 0.5 | 20     | 28-DEC-23 |
| Nickel (Ni)            |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Lead (Pb)              |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Selenium (Se)          |                 | <10               | <10    | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Vanadium (V)           |                 | <5.0              | <5.0   | RPD-NA    | ug    | N/A | 20     | 28-DEC-23 |
| Zinc (Zn)              |                 | 26.2              | 28.1   |           | ug    | 7.0 | 20     | 28-DEC-23 |
| <b>WG3787996-2</b>     | <b>LCS</b>      |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | 109.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Cadmium (Cd)           |                 |                   | 106.8  |           | %     |     | 80-120 | 28-DEC-23 |
| Cobalt (Co)            |                 |                   | 104.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Chromium (Cr)          |                 |                   | 105.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Copper (Cu)            |                 |                   | 105.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Iron (Fe)              |                 |                   | 106.6  |           | %     |     | 80-120 | 28-DEC-23 |
| Manganese (Mn)         |                 |                   | 103.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Nickel (Ni)            |                 |                   | 105.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Lead (Pb)              |                 |                   | 114.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Selenium (Se)          |                 |                   | 109.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Vanadium (V)           |                 |                   | 105.0  |           | %     |     | 80-120 | 28-DEC-23 |
| Zinc (Zn)              |                 |                   | 110.0  |           | %     |     | 80-120 | 28-DEC-23 |
| <b>WG3787996-1</b>     | <b>MB</b>       |                   |        |           |       |     |        |           |
| Arsenic (As)           |                 |                   | <3.0   |           | ug    |     | 3      | 28-DEC-23 |
| Cadmium (Cd)           |                 |                   | <0.027 |           | ug    |     | 0.027  | 28-DEC-23 |
| Cobalt (Co)            |                 |                   | <0.030 |           | ug    |     | 0.03   | 28-DEC-23 |
| Chromium (Cr)          |                 |                   | <3.4   |           | ug    |     | 3.4    | 28-DEC-23 |
| Copper (Cu)            |                 |                   | <1.0   |           | ug    |     | 1      | 28-DEC-23 |
| Iron (Fe)              |                 |                   | <12    |           | ug    |     | 12     | 28-DEC-23 |
| Manganese (Mn)         |                 |                   | <0.45  |           | ug    |     | 0.45   | 28-DEC-23 |
| Nickel (Ni)            |                 |                   | <0.25  |           | ug    |     | 0.25   | 28-DEC-23 |
| Lead (Pb)              |                 |                   | <0.12  |           | ug    |     | 0.12   | 28-DEC-23 |



## Quality Control Report

Workorder: L2753895

Report Date: 02-JAN-24

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| Test                       | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>     |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5973537</b> |                    |        |           |       |     |        |           |
| <b>WG3787996-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Selenium (Se)              |                 |                    | <1.3   |           | ug    |     | 1.25   | 28-DEC-23 |
| Vanadium (V)               |                 |                    | <5.0   |           | ug    |     | 10     | 28-DEC-23 |
| Zinc (Zn)                  |                 |                    | <4.5   |           | ug    |     | 4.5    | 28-DEC-23 |
| <b>WG3787996-4</b>         | <b>MS</b>       | <b>L2753895-1</b>  |        |           |       |     |        |           |
| Arsenic (As)               |                 |                    | 106.0  |           | %     |     | 75-125 | 28-DEC-23 |
| Cadmium (Cd)               |                 |                    | 104.1  |           | %     |     | 75-125 | 28-DEC-23 |
| Cobalt (Co)                |                 |                    | 102.1  |           | %     |     | 75-125 | 28-DEC-23 |
| Chromium (Cr)              |                 |                    | 102.1  |           | %     |     | 75-125 | 28-DEC-23 |
| Copper (Cu)                |                 |                    | N/A    | MS-B      | %     |     | -      | 28-DEC-23 |
| Iron (Fe)                  |                 |                    | N/A    | MS-B      | %     |     | -      | 28-DEC-23 |
| Manganese (Mn)             |                 |                    | 102.7  |           | %     |     | 75-125 | 28-DEC-23 |
| Nickel (Ni)                |                 |                    | 102.5  |           | %     |     | 75-125 | 28-DEC-23 |
| Lead (Pb)                  |                 |                    | 108.7  |           | %     |     | 75-125 | 28-DEC-23 |
| Selenium (Se)              |                 |                    | 104.2  |           | %     |     | 75-125 | 28-DEC-23 |
| Vanadium (V)               |                 |                    | 101.4  |           | %     |     | 75-125 | 28-DEC-23 |
| Zinc (Zn)                  |                 |                    | 105.4  |           | %     |     | 75-125 | 28-DEC-23 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5972776</b> |                    |        |           |       |     |        |           |
| <b>WG3787882-3</b>         | <b>DUP</b>      | <b>L2753895-1</b>  |        |           |       |     |        |           |
| Total particulate          |                 | 40600              | 40600  |           | ug    | 0.0 | 5      | 14-DEC-23 |
| <b>WG3787882-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <100   |           | ug    |     | 100    | 14-DEC-23 |
| <b>PART-M212 F-GRAV-BU</b> |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5972882</b> |                    |        |           |       |     |        |           |
| <b>WG3787909-3</b>         | <b>DUP</b>      | <b>L2753895-17</b> |        |           |       |     |        |           |
| Total particulate          |                 | 115                | 115    |           | ug    | 0.0 | 10     | 15-DEC-23 |
| <b>WG3787909-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <15    |           | ug    |     | 15     | 15-DEC-23 |

# Quality Control Report

Workorder: L2753895

Report Date: 02-JAN-24

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

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| Qualifier | Description  |
|-----------|--|
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.        |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2753895-COFC



Chain of Custody / Analytical Request Form
1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

Report To: New Gold Inc.
Company: Robyn Lloyd
Address: 11361 Roan Road, Chapple, ON P0W 1A0
Phone: 807-234-8200 ext. 8029
Report Format / Distribution
Service Requested: Regular Service
Rush Service (with prior consultation) - surcharge applies
Other - Please contact ALS
Client / Project Information
Job #: Air Quality
Location:
PO: 4500059107
Sampled by:
ALS Contact:
Sample Identification (This description will appear on the report)
Date (dd-mm-yy)
Time (h:mm)
Sample Type
TSP and Metals
Pm 2.5
Dustfall incl. volatile
Analysis Request
Hazardous? Provide Det
Highly Contaminated?
Number of Containers

Released by: [Signature] Date (dd-mm-yy): 7-Dec-2023 Time (h:m): 13:50 Temperature: 18.7 °C
Verified by: [Signature] Date: Time:
Observations: Yes/No? If Yes add ST



New Gold Inc. Rainy River Project  
ATTN: Robyn Lloyd  
24 Marr Rd  
Barwick ON POW 1A0

Date Received: 04-JAN-24  
Report Date: 22-JAN-24 11:35 (MT)  
Version: FINAL

Client Phone: 807-234-8200

## Certificate of Analysis

Lab Work Order #: L2754128  
Project P.O. #: 4500059107  
Job Reference:  
C of C Numbers:  
Legal Site Desc:

  
\_\_\_\_\_  
Claire Kocharakkal, B.Sc.  
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1435 Norjohn Court, Unit 1, Burlington, ON, L7L 0E6 Canada | Phone: +1 905 331 3111 | Fax: +1 905 331 4567  
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## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2754128-1 NORTH-TSP-518<br>Sampled By: Client on 02-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 187000 |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | 2.0    |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | 10.1   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 95.0   |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 3680   |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 89.6   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | 6.2    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | 16     |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | 5.7    |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 25.2   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-2 NORTH-TSP-519<br>Sampled By: Client on 08-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 48900  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 153    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 477    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 29.2   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | 4.8    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 45.9   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-3 NORTH-TSP-520<br>Sampled By: Client on 14-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 40500  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 134    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 716    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 35.2   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | 6.2    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 48.2   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2754128-4 NORTH-TSP-521<br>Sampled By: Client on 20-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 140000 |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | 11.2   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 140    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 3250   |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 71.6   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | 6.3    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | 5.9    |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 38.1   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-5 NORTH-TSP-522<br>Sampled By: Client on 26-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 11000  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 105    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 128    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 2.9    |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 6.0    |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-6 SOUTH-TSP-518<br>Sampled By: Client on 02-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 58000  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 101    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 1520   |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 38.8   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 11.4   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters  | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|--|--------|------------|------|-------|-----------|-----------|----------|
| L2754128-7 SOUTH-TSP-519<br>Sampled By: Client on 08-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 53200  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 132    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 626    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 35.1   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | 3.6    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 31.3   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-8 SOUTH-TSP-520<br>Sampled By: Client on 14-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 26500  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 151    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 455    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 26.4   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | 3.5    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | 10     |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 30.3   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-9 SOUTH-TSP-521<br>Sampled By: Client on 20-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>  |        |            |      |       |           |           |          |
| Total particulate  | 50600  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>   |        |            |      |       |           |           |          |
| Arsenic (As)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)  | 135    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)  | 1210   |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)   | 32.8   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)  | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)  | 27.1   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2754128-10 SOUTH-TSP-522<br>Sampled By: Client on 26-DEC-23<br>Matrix: Hi Vol Filter     |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 9800   |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)   | 94.1   |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)   | 119    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)  | 3.0    |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)   | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)   | 17.2   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-11 NORTHWEST-TSP-518<br>Sampled By: Client on 02-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 156000 |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)   | 14.7   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)   | 185    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)   | 4460   |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)  | 135    |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)   | 7.7    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)   | 5.7    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)   | 12     |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)  | 7.9    |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)   | 42.6   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-12 NORTHWEST-TSP-519<br>Sampled By: Client on 08-DEC-23<br>Matrix: Hi Vol Filter |        |            |      |       |           |           |          |
| <b>Miscellaneous Parameters</b>   |        |            |      |       |           |           |          |
| Total particulate   | 77600  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)   | 264    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)   | 896    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)  | 59.0   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)   | 4.4    |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)   | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)   | 36.5   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2754128-13 NORTHWEST-TSP-520<br>Sampled By: Client on 14-DEC-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 33900  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)   | 119    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)   | 323    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)  | 24.1   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)   | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)   | 16.2   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-14 NORTHWEST-TSP-521<br>Sampled By: Client on 20-DEC-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 327000 |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | 15.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)   | 2.9    |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)   | 16.2   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)   | 169    |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)   | 8150   |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)  | 304    |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)   | 20.1   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)   | 43.4   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)   | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)  | 10.6   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)   | 278    |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-15 NORTHWEST-TSP-522<br>Sampled By: Client on 26-DEC-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 9700   |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b>  |        |            |      |       |           |           |          |
| Arsenic (As)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)   | 96.8   |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)   | 144    |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)  | 4.0    |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)   | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)   | 6.0    |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2754128-16 TSP-DECEMBER TRIP BLANK<br>Sampled By: Client on 31-DEC-23<br>Matrix: Hi Vol Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | <2300  |            | 2300 | ug    |           | 09-JAN-24 | R5974057 |
| <b>Metals on High Volume Filter by ICPMS</b><br>Arsenic (As)  | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cadmium (Cd)  | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Cobalt (Co)   | <2.0   |            | 2.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Chromium (Cr)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Copper (Cu)   | <4.0   |            | 4.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Iron (Fe)   | 29     |            | 20   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Manganese (Mn)  | <1.0   |            | 1.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Nickel (Ni)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Lead (Pb)   | <3.0   |            | 3.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Selenium (Se)   | <10    |            | 10   | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Vanadium (V)  | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| Zinc (Zn)   | <5.0   |            | 5.0  | ug    | 15-JAN-24 | 16-JAN-24 | R5974557 |
| L2754128-17 NORTH-PM2.5-518<br>Sampled By: Client on 02-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 181    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-18 NORTH-PM2.5-519<br>Sampled By: Client on 08-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 231    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-19 NORTH-PM2.5-520<br>Sampled By: Client on 14-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 69     |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-20 NORTH-PM2.5-521<br>Sampled By: Client on 20-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 145    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-21 NORTH-PM2.5-522<br>Sampled By: Client on 26-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 109    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-22 SOUTH-PM2.5-518<br>Sampled By: Client on 02-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 179    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-23 SOUTH-PM2.5-519<br>Sampled By: Client on 08-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b>                                |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters   | Result | Qualifier* | D.L. | Units | Extracted | Analyzed  | Batch    |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2754128-23 SOUTH-PM2.5-519<br>Sampled By: Client on 08-DEC-23<br>Matrix: 47mm Filter<br>Total particulate  | 195    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-24 SOUTH-PM2.5-520<br>Sampled By: Client on 14-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 83     |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-25 SOUTH-PM2.5-521<br>Sampled By: Client on 20-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 31     |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-26 SOUTH-PM2.5-522<br>Sampled By: Client on 26-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate           | 58     |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-27 NORTHWEST-PM2.5-518<br>Sampled By: Client on 02-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 180    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-28 NORTHWEST-PM2.5-519<br>Sampled By: Client on 08-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 264    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-29 NORTHWEST-PM2.5-520<br>Sampled By: Client on 14-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 66     |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-30 NORTHWEST-PM2.5-521<br>Sampled By: Client on 20-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | 82     |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-31 NORTHWEST-PM2.5-522<br>Sampled By: Client on 26-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate       | <15    |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
| L2754128-32 PM2.5-DECEMBER TRIP BLANK<br>Sampled By: Client on 31-DEC-23<br>Matrix: 47mm Filter<br><b>Miscellaneous Parameters</b><br>Total particulate | 64     |            | 15   | ug    |           | 10-JAN-24 | R5974136 |
|   |        |            |      |       |           |           |          |

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

### Test Method References:

| ALS Test Code   | Matrix | Test Description                      | Method Reference**            |
|---|--------|---------------------------------------|-------------------------------|
| AIR VOLUME-HIVOL-BU   | Filter | Air volume (m3)                       | USEPA IO3.1                   |
| AIR VOLUME-M212 F-BU  | Filter | Air volume (m3)                       | EPA QA Guidance Document 2.12 |
| MET-IO3.5-MS-BU   | Filter | Metals on High Volume Filter by ICPMS | IO3.5                         |
| After weighing (if required), hivol filters are sub-sampled and leached with nitric acid to extract available metal analytes. After dilution, the extracts are submitted to the ICPMS instrument for analysis.  |        |                                       |                               |
| PART-HIVOL-GRAV-BU  | Filter | Particulate on High Volume Filter     | USEPA IO3.1                   |
| PART-M212 F-GRAV-BU   | Filter | PM via Gravimetric Analysis           | EPA QA Guidance Document 2.12 |
| The particulate matter collected onto tare-weighed 47mm Teflon Disc filter media is desiccated then brought to a constant weight on an analytical balance. Results are presented in ug (per filter). An air volume can be included to allow for reporting in ug/m3. |        |                                       |                               |

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                             |
|----------------------------|---|
| BU                         | ALS ENVIRONMENTAL - BURLINGTON, ONTARIO, CANADA |

### Chain of Custody Numbers:

### GLOSSARY OF REPORT TERMS

*Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.*

*mg/kg - milligrams per kilogram based on dry weight of sample*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight*

*mg/L - unit of concentration based on volume, parts per million.*

*< - Less than.*

*D.L. - The reporting limit.*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*



## Quality Control Report

Workorder: L2754128

Report Date: 22-JAN-24

Page 1 of 3

Client: New Gold Inc. Rainy River Project  
 24 Marr Rd  
 Barwick ON P0W 1A0

Contact: Robyn Lloyd

| Test   | Matrix          | Reference         | Result | Qualifier | Units | RPD  | Limit  | Analyzed  |
|--|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>   |                 | <b>Filter</b>     |        |           |       |      |        |           |
| <b>Batch</b>   | <b>R5974557</b> |                   |        |           |       |      |        |           |
| <b>WG3788175-3</b>   | <b>DUP</b>      | <b>L2754128-1</b> |        |           |       |      |        |           |
| Arsenic (As)   |                 | <3.0              | <3.0   | RPD-NA    | ug    | N/A  | 20     | 16-JAN-24 |
| Cadmium (Cd)   |                 | <2.0              | <2.0   | RPD-NA    | ug    | N/A  | 20     | 16-JAN-24 |
| Cobalt (Co)  |                 | 2.0               | 2.1    |           | ug    | 3.3  | 20     | 16-JAN-24 |
| Chromium (Cr)  |                 | 10.1              | 10.8   |           | ug    | 6.9  | 20     | 16-JAN-24 |
| Copper (Cu)  |                 | 95.0              | 170    | G         | ug    | 57   | 20     | 16-JAN-24 |
| Iron (Fe)  |                 | 3680              | 3820   |           | ug    | 3.7  | 25     | 16-JAN-24 |
| Manganese (Mn)   |                 | 89.6              | 90.9   |           | ug    | 1.5  | 20     | 16-JAN-24 |
| Nickel (Ni)  |                 | 6.2               | 6.7    |           | ug    | 8.4  | 20     | 16-JAN-24 |
| Lead (Pb)  |                 | <3.0              | 3.1    | RPD-NA    | ug    | N/A  | 20     | 16-JAN-24 |
| Selenium (Se)  |                 | 16                | <10    | RPD-NA    | ug    | N/A  | 20     | 16-JAN-24 |
| Vanadium (V)   |                 | 5.7               | 6.2    |           | ug    | 9.1  | 20     | 16-JAN-24 |
| Zinc (Zn)  |                 | 25.2              | 39.8   | J,G       | ug    | 14.6 | 10     | 16-JAN-24 |
| <p>COMMENTS: Cu and Zn RPDs are outside the ALS DQOs. This is likely due to inhomogeneity in the dispersion of these analytes across the sampled filter surface. Data may show higher-than-normal variability. SA 17-Jan-24</p>                                    |                 |                   |        |           |       |      |        |           |
| <b>WG3788175-2</b>   |                 | <b>LCS</b>        |        |           |       |      |        |           |
| Arsenic (As)   |                 |                   | 112.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Cadmium (Cd)   |                 |                   | 109.2  |           | %     |      | 80-120 | 16-JAN-24 |
| Cobalt (Co)  |                 |                   | 107.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Chromium (Cr)  |                 |                   | 106.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Copper (Cu)  |                 |                   | 206.0  | G         | %     |      | 80-120 | 16-JAN-24 |
| Iron (Fe)  |                 |                   | 109.2  |           | %     |      | 80-120 | 16-JAN-24 |
| Manganese (Mn)   |                 |                   | 106.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Nickel (Ni)  |                 |                   | 108.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Lead (Pb)  |                 |                   | 107.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Selenium (Se)  |                 |                   | 110.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Vanadium (V)   |                 |                   | 108.0  |           | %     |      | 80-120 | 16-JAN-24 |
| Zinc (Zn)  |                 |                   | 118.0  |           | %     |      | 80-120 | 16-JAN-24 |
| <p>COMMENTS: Cu recoveries for the LCS is outside ALS DQOs. MS recoveries are within control limits. This may indicate a standard spiking issue, or potentially some contamination during Prep. Sample data for this fraction may be biased high. SA 17-Jan-24</p> |                 |                   |        |           |       |      |        |           |
| <b>WG3788175-1</b>   |                 | <b>MB</b>         |        |           |       |      |        |           |
| Arsenic (As)   |                 | <3.0              |        |           | ug    |      | 3      | 16-JAN-24 |
| Cadmium (Cd)   |                 | <0.027            |        |           | ug    |      | 0.027  | 16-JAN-24 |
| Cobalt (Co)  |                 | <0.030            |        |           | ug    |      | 0.03   | 16-JAN-24 |
| Chromium (Cr)  |                 | <3.4              |        |           | ug    |      | 3.4    | 16-JAN-24 |
| Copper (Cu)  |                 | <1.0              |        |           | ug    |      | 1      | 16-JAN-24 |
| Iron (Fe)  |                 | <12               |        |           | ug    |      | 12     | 16-JAN-24 |



## Quality Control Report

Workorder: L2754128

Report Date: 22-JAN-24

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| Test                       | Matrix          | Reference          | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| <b>MET-IO3.5-MS-BU</b>     |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5974557</b> |                    |        |           |       |     |        |           |
| <b>WG3788175-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Manganese (Mn)             |                 |                    | <0.45  |           | ug    |     | 0.45   | 16-JAN-24 |
| Nickel (Ni)                |                 |                    | <0.25  |           | ug    |     | 0.25   | 16-JAN-24 |
| Lead (Pb)                  |                 |                    | <0.12  |           | ug    |     | 0.12   | 16-JAN-24 |
| Selenium (Se)              |                 |                    | <1.3   |           | ug    |     | 1.25   | 16-JAN-24 |
| Vanadium (V)               |                 |                    | <5.0   |           | ug    |     | 10     | 16-JAN-24 |
| Zinc (Zn)                  |                 |                    | <4.5   |           | ug    |     | 4.5    | 16-JAN-24 |
| <b>WG3788175-4</b>         | <b>MS</b>       | <b>L2754128-1</b>  |        |           |       |     |        |           |
| Arsenic (As)               |                 |                    | 109.1  |           | %     |     | 75-125 | 16-JAN-24 |
| Cadmium (Cd)               |                 |                    | 107.3  |           | %     |     | 75-125 | 16-JAN-24 |
| Cobalt (Co)                |                 |                    | 102.5  |           | %     |     | 75-125 | 16-JAN-24 |
| Chromium (Cr)              |                 |                    | 106.5  |           | %     |     | 75-125 | 16-JAN-24 |
| Copper (Cu)                |                 |                    | N/A    | MS-B      | %     |     | -      | 16-JAN-24 |
| Iron (Fe)                  |                 |                    | N/A    | MS-B      | %     |     | -      | 16-JAN-24 |
| Manganese (Mn)             |                 |                    | N/A    | MS-B      | %     |     | -      | 16-JAN-24 |
| Nickel (Ni)                |                 |                    | 105.3  |           | %     |     | 75-125 | 16-JAN-24 |
| Lead (Pb)                  |                 |                    | 101.5  |           | %     |     | 75-125 | 16-JAN-24 |
| Selenium (Se)              |                 |                    | 82.3   |           | %     |     | 75-125 | 16-JAN-24 |
| Vanadium (V)               |                 |                    | 105.4  |           | %     |     | 75-125 | 16-JAN-24 |
| Zinc (Zn)                  |                 |                    | 108.1  |           | %     |     | 75-125 | 16-JAN-24 |
| <b>PART-HIVOL-GRAV-BU</b>  |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5974057</b> |                    |        |           |       |     |        |           |
| <b>WG3788087-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <100   |           | ug    |     | 100    | 09-JAN-24 |
| <b>PART-M212 F-GRAV-BU</b> |                 |                    |        |           |       |     |        |           |
|                            | <b>Filter</b>   |                    |        |           |       |     |        |           |
| <b>Batch</b>               | <b>R5974136</b> |                    |        |           |       |     |        |           |
| <b>WG3788104-3</b>         | <b>DUP</b>      | <b>L2754128-17</b> |        |           |       |     |        |           |
| Total particulate          |                 | 181                | 183    |           | ug    | 1.1 | 10     | 10-JAN-24 |
| <b>WG3788104-1</b>         | <b>MB</b>       |                    |        |           |       |     |        |           |
| Total particulate          |                 |                    | <15    |           | ug    |     | 15     | 10-JAN-24 |



# Quality Control Report

Workorder: L2754128

Report Date: 22-JAN-24

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Sample Parameter Qualifier Definitions:

---

| Qualifier | Description   |
|-----------|---|
| G         | QC result did not meet ALS DQO. Refer to narrative comments for further information.  |
| J,G       | QC result did not meet ALS DQO. Refer to narrative comments for further information. Duplicate expressed in terms of absolute difference. |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.  |
| RPD-NA    | Relative Percent Difference Not Available due to result(s) being less than detection limit.   |

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## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

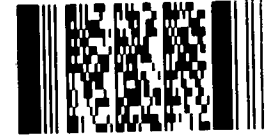
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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

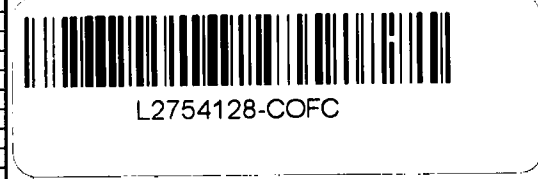


Environmental Division  
 Burlington  
 Work Order Reference  
**BU2400000**



Telephone : - 1 905 331 3111

| Report To                                    |   | Report Format / Distribution     |                 |             |     | Service Requested  |                         |  |  |  |  |  |  |  |  |  |  |  |
|--|---|----------------------------------|-----------------|-------------|-----|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Company: New Gold Inc.                       |   |                                  |                 |             |     | Regular Service  |                         |  |  |  |  |  |  |  |  |  |  |  |
| Contact: Robyn Lloyd                         |   |                                  |                 |             |     | Rush Service (with prior consultation) - surcharge applies |                         |  |  |  |  |  |  |  |  |  |  |  |
| Address: 1361 Roen Road, Chapple, ON POW 1A0 |   | Email 1: robyn.lloyd@newgold.com |                 |             |     | Other - Please contact ALS                                 |                         |  |  |  |  |  |  |  |  |  |  |  |
| Phone: 807-234-8200 ext. 8029 Fax:           |   | Email 2:                         |                 |             |     | Analysis Request   |                         |  |  |  |  |  |  |  |  |  |  |  |
| Invoice To: Same as Report                   |   | Client / Project Information     |                 |             |     | TSP and Metals   |                         |  |  |  |  |  |  |  |  |  |  |  |
| Company:                                     |   | Job #:                           |                 |             |     | Pm 2.5   |                         |  |  |  |  |  |  |  |  |  |  |  |
| Contact:                                     |   | Location:                        |                 |             |     | Dustfall incl. volatile                                    |                         |  |  |  |  |  |  |  |  |  |  |  |
| Address:                                     |   | PO: 4500059107                   |                 |             |     | Hazardous? Provide Data                                    |                         |  |  |  |  |  |  |  |  |  |  |  |
| Phone: Fax:                                  |   | Sampled by:                      |                 |             |     | Highly Contaminated?                                       |                         |  |  |  |  |  |  |  |  |  |  |  |
| Lab Work Order #                             |   | ALS Contact:                     |                 |             |     | Number of Containers                                       |                         |  |  |  |  |  |  |  |  |  |  |  |
| Sample #                                     | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)               | Time<br>(hh:mm) | Sample Type | TSP | Pm 2.5   | Dustfall incl. volatile |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-518   | 2-Dec-2023                       | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-518   | 2-Dec-2023                       | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-518   | 2-Dec-2023                       | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-519   | 8-Dec-2023                       | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-519   | 8-Dec-2023                       | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-519   | 8-Dec-2023                       | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-520   | 14-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-520   | 14-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-520   | 14-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-521   | 20-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-521   | 20-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-521   | 20-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-TSP-522   | 26-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-TSP-522   | 26-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-TSP-522   | 26-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | TRIP BLANK - November TSP   | 31-Dec-2023                      | 12:00           | Air         | X   |  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-518   | 2-Dec-2023                       | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-518   | 2-Dec-2023                       | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-PM2.5-518   | 2-Dec-2023                       | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-519   | 8-Dec-2023                       | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-519   | 8-Dec-2023                       | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-PM2.5-519   | 8-Dec-2023                       | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-520   | 14-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-520   | 14-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-PM2.5-520   | 14-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-521   | 20-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-521   | 20-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-PM2.5-521   | 20-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTH-PM2.5-522   | 26-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | SOUTH-PM2.5-522   | 26-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | NORTHWEST-PM2.5-522   | 26-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | TRIP BLANK - November- PM2.5  | 31-Dec-2023                      | 12:00           | Air         |     | X  |                         |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall - Northwest  | 31-Dec-2023                      | 12:00           | Air         |     |  | X                       |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall - Trip Blank   | 31-Dec-2023                      | 12:00           | Air         |     |  | X                       |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall - North  | 31-Dec-2023                      | 12:00           | Air         |     |  | X                       |  |  |  |  |  |  |  |  |  |  |  |
|  | Dustfall - South  | 31-Dec-2023                      | 12:00           | Air         |     |  | X                       |  |  |  |  |  |  |  |  |  |  |  |



L2754128-COFC

Special Instructions / Regulations / Hazardous Details

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

|              |                 |            |                 |               |       |              |              |       |       |   |
|--------------|-----------------|------------|-----------------|---------------|-------|--------------|--------------|-------|-------|---|
| Released by: | Date (dd-mm-yy) | Time (h-m) | Received by:    | Date:         | Time: | Temperature: | Verified by: | Date: | Time: | Observations:<br>Yes ( ) No ( )<br>If Yes add S/F |
|              |                 |            | AARAW<br>BURTON | 4-JAN<br>2024 | 11:40 | 17.0<br>°C   |              |       |       |   |



## CERTIFICATE OF ANALYSIS

|   |   |
|---|---|
| <p><b>Work Order</b> : <b>BU2300106</b></p> <p>Client : <b>New Gold Inc. (Rainy River)</b></p> <p>Contact : Robyn Lloyd</p> <p>Address : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p>Telephone : 807 234 8200</p> <p>Project : Air Quality</p> <p>PO : 4500059107</p> <p>C-O-C number : ----</p> <p>Sampler : Client</p> <p>Site :</p> <p>Quote number : Air Quality Standing Offer</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p> | <p>Page : 1 of 5</p> <p>Laboratory : ALS Environmental - Burlington</p> <p>Account Manager : Claire Kocharakkal</p> <p>Address : 1435 Norjohn Court, Unit 1<br/>Burlington ON Canada L7L 0E6</p> <p>Telephone : +1 905 331 3111</p> <p>Date Samples Received : 10-Nov-2023 08:30</p> <p>Date Analysis Commenced : 10-Nov-2023</p> <p>Issue Date : 29-Nov-2023 15:01</p> |
|---|---|

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                            | <i>Laboratory Department</i>          |
|--------------------|--|---------------------------------------|
| Aaron Burton       | Login                                      | Administration, Burlington, Ontario   |
| Alex Thornton      | Analyst                                    | Metals, Burnaby, British Columbia     |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation    | Metals, Burnaby, British Columbia     |
| Tracy Harley       | Supervisor - Water Quality Instrumentation | Inorganics, Burnaby, British Columbia |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                              |            |                  |           |                         | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|------------------------------|------------|------------------|-----------|-------------------------|----------------------|----------------------|------------------------|------------------------|-------|
| Client sampling date / time  |            |                  |           |                         | 31-Oct-2023<br>00:00 | 31-Oct-2023<br>00:00 | 31-Oct-2023<br>00:00   | 31-Oct-2023<br>00:00   | ----  |
| Analyte                      | CAS Number | Method/Lab       | LOR       | Unit                    | BU2300106-001        | BU2300106-002        | BU2300106-003          | BU2300106-004          | ----- |
|                              |            |                  |           |                         | Result               | Result               | Result                 | Result                 | ----  |
| <b>Field Tests</b>           |            |                  |           |                         |                      |                      |                        |                        |       |
| Area sampled, field          | ----       | EF001A/VA        | 0.010     | cm <sup>2</sup>         | 55.4                 | 55.4                 | 55.4                   | 55.4                   | ----  |
| Sampling time, field         | ----       | EF001B/BU        | 1         | days                    | 33                   | 33                   | 33                     | 33                     | ----  |
| <b>Particulates</b>          |            |                  |           |                         |                      |                      |                        |                        |       |
| Dustfall, fixed insoluble    | ----       | EC885.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | 0.23                 | <0.10                  | <0.10                  | ----  |
| Dustfall, volatile insoluble | ----       | EC885V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | 0.12                 | 0.13                   | <0.10                  | ----  |
| Dustfall, total insoluble    | ----       | EC882.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | 0.36                 | 0.13                   | <0.10                  | ----  |
| Dustfall, fixed soluble      | ----       | EC884.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | <0.10                | <0.10                  | <0.10                  | ----  |
| Dustfall, volatile soluble   | ----       | EC884V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | <0.10                | <0.10                  | <0.10                  | ----  |
| Dustfall, total soluble      | ----       | EC881.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | <0.10                | <0.10                  | <0.10                  | ----  |
| Dustfall, fixed              | ----       | EC883F.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | <0.21                | 0.23                 | <0.21                  | <0.21                  | ----  |
| Dustfall, volatile           | ----       | EC883V2.A/V<br>A | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | 0.12                 | 0.13                   | <0.10                  | ----  |
| Dustfall, total              | ----       | EC880T.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | <0.21                | 0.36                 | <0.21                  | <0.21                  | ----  |
| Dustfall, fixed insoluble    | ----       | E885/VA          | 1.9       | mg                      | <1.9                 | 4.2                  | <1.9                   | <1.9                   | ----  |
| Dustfall, total insoluble    | ----       | E882/VA          | 1.9       | mg                      | <1.9                 | 6.5                  | 2.4                    | <1.9                   | ----  |
| Dustfall, fixed soluble      | ----       | E884/VA          | 1.9       | mg                      | <1.9                 | <1.9                 | <1.9                   | <1.9                   | ----  |
| Dustfall, total soluble      | ----       | E881/VA          | 1.9       | mg                      | <1.9                 | <1.9                 | <1.9                   | <1.9                   | ----  |
| <b>Total Metals</b>          |            |                  |           |                         |                      |                      |                        |                        |       |
| Aluminum, total              | 7429-90-5  | EC447/VA         | 0.000160  | mg/dm <sup>2</sup> .day | <0.000164            | 0.00433              | 0.00105                | <0.000164              | ----  |
| Antimony, total              | 7440-36-0  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000027           | <0.0000032           | <0.0000030             | <0.0000027             | ----  |
| Arsenic, total               | 7440-38-2  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000027           | 0.0000035            | <0.0000030             | <0.0000027             | ----  |
| Barium, total                | 7440-39-3  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000027           | 0.0000446            | 0.0000277              | <0.0000027             | ----  |
| Beryllium, total             | 7440-41-7  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000016            | <0.000015              | <0.000014              | ----  |
| Bismuth, total               | 7440-69-9  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000016            | <0.000015              | <0.000014              | ----  |
| Boron, total                 | 7440-42-8  | EC447/VA         | 0.00026   | mg/dm <sup>2</sup> .day | <0.00027             | <0.00032             | <0.00030               | <0.00027               | ----  |
| Cadmium, total               | 7440-43-9  | EC447/VA         | 0.0000013 | mg/dm <sup>2</sup> .day | <0.0000013           | <0.0000013           | <0.0000013             | <0.0000013             | ----  |
| Calcium, total               | 7440-70-2  | EC447/VA         | 0.00052   | mg/dm <sup>2</sup> .day | <0.00055             | 0.0263               | 0.00946                | <0.00055               | ----  |
| Chromium, total              | 7440-47-3  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | 0.000016             | <0.000015              | <0.000014              | ----  |
| Cobalt, total                | 7440-48-4  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000027           | <0.0000032           | <0.0000030             | <0.0000027             | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|-----------------------------|------------|------------|------------|-------------------------|----------------------|----------------------|------------------------|------------------------|-------|
| Client sampling date / time |            |            |            |                         | 31-Oct-2023<br>00:00 | 31-Oct-2023<br>00:00 | 31-Oct-2023<br>00:00   | 31-Oct-2023<br>00:00   | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | BU2300106-001        | BU2300106-002        | BU2300106-003          | BU2300106-004          | ----- |
|                             |            |            |            |                         | Result               | Result               | Result                 | Result                 | ----  |
| <b>Total Metals</b>         |            |            |            |                         |                      |                      |                        |                        |       |
| Copper, total               | 7440-50-8  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000027            | 0.000033             | <0.000030              | <0.000027              | ----  |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079    | mg/dm <sup>2</sup> .day | <0.00082             | 0.00547              | 0.00131                | <0.00082               | ----  |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000014           | 0.0000108            | 0.0000044              | <0.0000014             | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | <0.00014             | <0.00016             | <0.00015               | <0.00014               | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | <0.00014             | 0.00596              | 0.00183                | <0.00014               | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>2</sup> .day | <0.0000055           | 0.000468             | 0.000109               | <0.0000055             | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000014           | <0.0000016           | <0.0000015             | <0.0000014             | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000014           | <0.0000016           | <0.0000015             | <0.0000014             | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>2</sup> .day | <0.000014            | 0.000030             | <0.000015              | <0.000014              | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0014              | 0.0082               | <0.0015                | <0.0014                | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0014              | 0.0120               | <0.0015                | <0.0014                | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000027            | <0.000032            | <0.000030              | <0.000027              | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0014              | 0.0071               | 0.0016                 | <0.0014                | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>2</sup> .day | <0.00000027          | <0.00000032          | <0.00000030            | <0.00000027            | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0014              | 0.0024               | <0.0015                | <0.0014                | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000027           | 0.0000463            | 0.0000212              | <0.0000027             | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000027           | <0.0000032           | <0.0000030             | <0.0000027             | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000027           | <0.0000032           | <0.0000030             | <0.0000027             | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>2</sup> .day | <0.00027             | <0.00032             | <0.00030               | <0.00027               | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000026           | <0.0000026           | <0.0000026             | <0.0000026             | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000027            | <0.000032            | <0.000030              | <0.000027              | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>2</sup> .day | <0.000082            | 0.000230             | <0.000087              | <0.000082              | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | <0.0030              | 0.0792               | 0.0192                 | <0.0030                | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | <0.000050            | <0.000059            | <0.000054              | <0.000050              | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | <0.000050            | 0.000064             | <0.000054              | <0.000050              | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | <0.000050            | 0.000816             | 0.000506               | <0.000050              | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00030             | <0.00027               | <0.00025               | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00030             | <0.00027               | <0.00025               | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050              | <0.0059              | <0.0054                | <0.0050                | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | <0.000020            | <0.000024            | <0.000022              | <0.000020              | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|-----------------------------|------------|------------|-----------|------|----------------------|----------------------|------------------------|------------------------|-------|
| Client sampling date / time |            |            |           |      | 31-Oct-2023<br>00:00 | 31-Oct-2023<br>00:00 | 31-Oct-2023<br>00:00   | 31-Oct-2023<br>00:00   | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2300106-001        | BU2300106-002        | BU2300106-003          | BU2300106-004          | ----- |
|                             |            |            |           |      | Result               | Result               | Result                 | Result                 | ----  |
| <b>Total Metals</b>         |            |            |           |      |                      |                      |                        |                        |       |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010     | mg   | <0.010               | 0.481                | 0.173                  | <0.010                 | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025   | mg   | <0.00025             | 0.00030              | <0.00027               | <0.00025               | ----  |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000059            | <0.000054              | <0.000050              | ----  |
| Copper, total               | 7440-50-8  | E447/VA    | 0.00050   | mg   | <0.00050             | 0.00060              | <0.00054               | <0.00050               | ----  |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | <0.015               | 0.100                | 0.024                  | <0.015                 | ----  |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | <0.000025            | 0.000198             | 0.000080               | <0.000025              | ----  |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025              | <0.0030              | <0.0027                | <0.0025                | ----  |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | <0.0025              | 0.109                | 0.0335                 | <0.0025                | ----  |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | <0.00010             | 0.00856              | 0.00200                | <0.00010               | ----  |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025            | <0.000030            | <0.000027              | <0.000025              | ----  |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | <0.000025            | <0.000030            | <0.000027              | <0.000025              | ----  |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | <0.00025             | 0.00055              | <0.00027               | <0.00025               | ----  |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | <0.025               | 0.149                | <0.027                 | <0.025                 | ----  |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | <0.025               | 0.220                | <0.027                 | <0.025                 | ----  |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050             | <0.00059             | <0.00054               | <0.00050               | ----  |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | <0.025               | 0.130                | 0.030                  | <0.025                 | ----  |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | <0.0000050           | <0.0000059           | <0.0000054             | <0.0000050             | ----  |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | <0.025               | 0.043                | <0.027                 | <0.025                 | ----  |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | <0.000050            | 0.000846             | 0.000388               | <0.000050              | ----  |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000059            | <0.000054              | <0.000050              | ----  |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000059            | <0.000054              | <0.000050              | ----  |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050              | <0.0059              | <0.0054                | <0.0050                | ----  |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050           | <0.0000059           | <0.0000054             | <0.0000050             | ----  |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050             | <0.00059             | <0.00054               | <0.00050               | ----  |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | <0.0015              | 0.0042               | <0.0016                | <0.0015                | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.




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## QUALITY CONTROL INTERPRETIVE REPORT

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|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2300106</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4500059107</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 10</p> <p><b>Laboratory</b> : ALS Environmental - Burlington</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 10-Nov-2023 08:30</p> <p><b>Issue Date</b> : 29-Nov-2023 15:01</p> |
|---|--|

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This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
  - CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
  - DQO: Data Quality Objective.
  - LOR: Limit of Reporting (detection limit).
  - RPD: Relative Percent Difference.
- 

### ***Workorder Comments***

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Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### ***Summary of Outliers***

#### ***Outliers : Quality Control Samples***

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

#### ***Outliers: Reference Material (RM) Samples***

- No Reference Material (RM) Sample outliers occur.



### ***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

### ***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                  | EF001A | 31-Oct-2023   | ----                     | ----          | ----   |      | 24-Nov-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest              | EF001A | 31-Oct-2023   | ----                     | ----          | ----   |      | 24-Nov-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                  | EF001A | 31-Oct-2023   | ----                     | ----          | ----   |      | 24-Nov-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | EF001A | 31-Oct-2023   | ----                     | ----          | ----   |      | 24-Nov-2023   | ----          | 25 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                  | EF001B | 31-Oct-2023   | ----                     | ----          | ----   |      | 10-Nov-2023   | ----          | 10 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest              | EF001B | 31-Oct-2023   | ----                     | ----          | ----   |      | 10-Nov-2023   | ----          | 10 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                  | EF001B | 31-Oct-2023   | ----                     | ----          | ----   |      | 10-Nov-2023   | ----          | 10 days |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Trip Blank      | EF001B | 31-Oct-2023   | ----                     | ----          | ----   |      | 10-Nov-2023   | ----          | 10 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-North           | E885   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Northwest       | E885   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-South           | E885   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Trip Blank      | E885   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-North           | E884   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Northwest       | E884   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-South           | E884   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (algecide)</b><br>Dustfall-Trip Blank      | E884   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----   |      | 27-Nov-2023   | ----          | 28 days |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                  | E882   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest              | E882   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                  | E882   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E882   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                  | E881   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest              | E881   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-South                  | E881   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E881   | 31-Oct-2023   | 24-Nov-2023              | ----          | ----    |      | 27-Nov-2023   | ----          | 28 days |      |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (algecide)<br>Dustfall-North                  | E516   | 31-Oct-2023   | 23-Nov-2023              | 180 days      | 24 days | ✔    | 24-Nov-2023   | 180 days      | 1 days  | ✔    |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest              | E516   | 31-Oct-2023   | 23-Nov-2023              | 180 days      | 24 days | ✔    | 24-Nov-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-South                  | E516   | 31-Oct-2023   | 23-Nov-2023              | 180 days      | 24 days | ✔    | 24-Nov-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E516   | 31-Oct-2023   | 23-Nov-2023              | 180 days      | 24 days | ✔    | 24-Nov-2023   | 180 days      | 1 days  | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-North                  | E447   | 31-Oct-2023   | 24-Nov-2023              | 180 days      | 25 days | ✔    | 25-Nov-2023   | 180 days      | 26 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Northwest              | E447   | 31-Oct-2023   | 24-Nov-2023              | 180 days      | 25 days | ✔    | 25-Nov-2023   | 180 days      | 26 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-South                  | E447   | 31-Oct-2023   | 24-Nov-2023              | 180 days      | 25 days | ✔    | 25-Nov-2023   | 180 days      | 26 days | ✔    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (algecide)<br>Dustfall-Trip Blank             | E447   | 31-Oct-2023   | 24-Nov-2023              | 180 days      | 25 days | ✔    | 25-Nov-2023   | 180 days      | 26 days | ✔    |  |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1250722  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1250723  | 1     | 12      | 8.3           | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1252227  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1252228  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1252230  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1250722  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1250723  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1252229  | 1     | 6       | 16.6          | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1252227  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1252228  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1252230  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1250722  | 1     | 6       | 16.6          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1250723  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1252229  | 1     | 6       | 16.6          | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1250722  | 1     | 6       | 16.6          | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods   | Method / Lab                              | Matrix | Method Reference            | Method Descriptions   |
|--|---|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)                   | E447<br>ALS Environmental - Vancouver     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)                      | E516<br>ALS Environmental - Vancouver     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)                 | E881<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)               | E882<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)                 | E884<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)                | E885<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm <sup>2</sup> .day)  | EC447<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day by field information.  |
| Total Mercury by CVAAS (Dustfall, mg/dm <sup>2</sup> .day) | EC516<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day based on field information.  |
| Total Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC880T.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |



| Analytical Methods  | Method / Lab                               | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                   |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                 |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>ALS Environmental - Vancouver    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>ALS Environmental - Burlington   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|





| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                    | <i>Matrix</i> | <i>Method Reference</i>     | <i>Method Descriptions</i>  |
|---|--|---------------|-----------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br>ALS Environmental - Vancouver | Air           | EPA 6020A                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br>ALS Environmental - Vancouver | Air           | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br>ALS Environmental - Vancouver | Air           | BC LAB MANUAL - PARTICULATE | Dustfall sample preparation.  |

## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2300106</b>                        | <b>Page</b>                    | : 1 of 8   |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : ALS Environmental - Burlington                                   |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 10-Nov-2023 08:30  |
| <b>PO</b>                      | : 4500059107                              | <b>Date Analysis Commenced</b> | : 10-Nov-2023  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 29-Nov-2023 15:01  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 4                                       |                                |  |
| <b>No. of samples analysed</b> | : 4                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>                            | <i>Laboratory Department</i>                    |
|--------------------|--|---|
| Aaron Burton       | Login                                      | Burlington Administration, Burlington, Ontario  |
| Alex Thornton      | Analyst                                    | Vancouver Metals, Burnaby, British Columbia     |
| Kevin Duarte       | Supervisor - Metals ICP Instrumentation    | Vancouver Metals, Burnaby, British Columbia     |
| Tracy Harley       | Supervisor - Water Quality Instrumentation | Vancouver Inorganics, Burnaby, British Columbia |

Page : 2 of 8  
Work Order : BU2300106  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality

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## **General Comments**

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## **Workorder Comments**

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

| Sub-Matrix: Air                       |                  |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---------------------------------------|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                  | Client sample ID | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1250722)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300106-001                         | Dustfall-North   | Mercury, total    | 7439-97-6  | E516   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1250723)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300106-001                         | Dustfall-North   | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | <0.0030         | <0.0030          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | <0.010          | 0.011            | 0.0009               | Diff <2x LOR     | ----      |
|                                       |                  | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | <0.015          | <0.015           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Silver, total     | 7440-22-4  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |



| Sub-Matrix: Air                                   |                  |                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---|------------------|-----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                              | Client sample ID | Analyte         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1250723) - continued</b> |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300106-001                                     | Dustfall-North   | Titanium, total | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|   |                  | Uranium, total  | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|   |                  | Vanadium, total | 7440-62-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Zinc, total     | 7440-66-6  | E447   | 0.0015                            | mg   | <0.0015         | <0.0015          | 0                    | Diff <2x LOR     | ----      |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                              | CAS Number | Method | LOR      | Unit | Result    | Qualifier |
|--------------------------------------|------------|--------|----------|------|-----------|-----------|
| <b>Particulates (QCLot: 1252227)</b> |            |        |          |      |           |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 1252228)</b> |            |        |          |      |           |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 1252229)</b> |            |        |          |      |           |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | <1.9      | ---       |
| <b>Particulates (QCLot: 1252230)</b> |            |        |          |      |           |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | <1.9      | ---       |
| <b>Total Metals (QCLot: 1250722)</b> |            |        |          |      |           |           |
| Mercury, total                       | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025 | ---       |
| <b>Total Metals (QCLot: 1250723)</b> |            |        |          |      |           |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | <0.0030   | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | <0.0050   | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020 | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | <0.010    | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050 | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050  | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | <0.015    | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025 | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025   | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025   | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010  | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025 | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025  | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | <0.025    | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | <0.025    | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050  | ---       |



Sub-Matrix: Air

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1250723) - continued</b> |            |        |          |      |            |           |
| Silicon, total                                   | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ----      |
| Silver, total                                    | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |



## Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                      |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|                                      |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                              | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Particulates (QCLot: 1252227)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble            | ----       | E885   | 1.9      | mg   | 30 mg                                  | 95.5         | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1252228)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble              | ----       | E884   | 1.9      | mg   | 119 mg                                 | 106          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1252229)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble              | ----       | E881   | 1.9      | mg   | 200 mg                                 | 98.2         | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1252230)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble            | ----       | E882   | 1.9      | mg   | 30 mg                                  | 99.5         | 85.0                | 115  | ----      |
| <b>Total Metals (QCLot: 1250722)</b> |            |        |          |      |  |              |                     |      |           |
| Mercury, total                       | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 108          | 70.0                | 130  | ----      |
| <b>Total Metals (QCLot: 1250723)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 101          | 80.0                | 120  | ----      |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 109          | 80.0                | 120  | ----      |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 110          | 80.0                | 120  | ----      |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 103          | 80.0                | 120  | ----      |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 104          | 80.0                | 120  | ----      |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 109          | 80.0                | 120  | ----      |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 99.6         | 80.0                | 120  | ----      |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 104          | 80.0                | 120  | ----      |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 103          | 80.0                | 120  | ----      |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 103          | 80.0                | 120  | ----      |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 100          | 80.0                | 120  | ----      |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 106          | 80.0                | 120  | ----      |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ----      |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 105          | 80.0                | 120  | ----      |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 105          | 80.0                | 120  | ----      |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 106          | 80.0                | 120  | ----      |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ----      |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 104          | 80.0                | 120  | ----      |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 103          | 80.0                | 120  | ----      |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 102          | 80.0                | 120  | ----      |





| Sub-Matrix: Air                                  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Analyte  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High |           |
| <b>Total Metals (QCLot: 1250723) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Silicon, total                                   | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 106          | 80.0                | 120  | ----      |
| Silver, total                                    | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 94.9         | 80.0                | 120  | ----      |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 106          | 80.0                | 120  | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 99.5         | 80.0                | 120  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 99.6         | 80.0                | 120  | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 96.7         | 80.0                | 120  | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ----      |

### Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Sub-Matrix: Air                      |                  |                |            |        | Matrix Spike (MS) Report |              |                     |      |           |      |
|--------------------------------------|------------------|----------------|------------|--------|--------------------------|--------------|---------------------|------|-----------|------|
|                                      |                  |                |            |        | Spike                    | Recovery (%) | Recovery Limits (%) |      | Qualifier |      |
| Laboratory sample ID                 | Client sample ID | Analyte        | CAS Number | Method | Concentration            | Target       | MS                  | Low  |           | High |
| <b>Total Metals (QCLot: 1250722)</b> |                  |                |            |        |                          |              |                     |      |           |      |
| BU2300106-002                        | Dustfall-South   | Mercury, total | 7439-97-6  | E516   | 0.000587 mg              | 0.00059 mg   | 99.4                | 70.0 | 130       | ---- |



Chain of Custody / Analytical Request Form  
 1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
 Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com



L2753528-COFC

| Report To   |   | Report Format / Distribution      |                 |             | Service Requested   |              |                         |                         |                      |   |
|---|---|-----------------------------------|-----------------|-------------|---|--------------|-------------------------|-------------------------|----------------------|---|
| Company: 1New Gold Inc.   |   |                                   |                 |             | Regular Service   |              |                         |                         |                      |   |
| Contact: 1Robyn Lloyd   |   |                                   |                 |             | Rush Services (with prior consultation) - surcharge applies |              |                         |                         |                      |   |
| Address: 11361 Roen Road, Chapple, ON P0W 1A0   |   | Email 1: 1robyn.lloyd@newgold.com |                 |             | Other - Please contact ALS                                  |              |                         |                         |                      |   |
| Phone: 1807-234-8200 ext. 8029 Fax:   |   | Email 2:                          |                 |             | Analysis Request  |              |                         |                         |                      |   |
| Invoice To: Same as Report  |   | Client / Project Information      |                 |             |   |              |                         |                         |                      |   |
| Company: 1  |   | Job #: 1Air Quality               |                 |             |   |              |                         |                         |                      |   |
| Contact: 1  |   | Location:                         |                 |             |   |              |                         |                         |                      |   |
| Address: 1  |   | PO: 14500059107                   |                 |             |   |              |                         |                         |                      |   |
| Phone: 1 Fax:   |   | Sampled by:                       |                 |             |   |              |                         |                         |                      |   |
| Lab Work Order #  |   | ALS Contact:                      |                 |             |   |              |                         |                         |                      |   |
| Sample #  | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)                | Time<br>(hh:mm) | Sample Type | TSP and Metals  | Pm 2.5       | Dustfall Incl. volatile | Hazardous? Provide Detr | Highly Contaminated? | Number of Containers                          |
|   | NORTH-TSP-508   | 3-Oct-2023                        | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | SOUTH-TSP-508   | 3-Oct-2023                        | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTHWEST-TSP-508   | 3-Oct-2023                        | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTH-TSP-509   | 9-Oct-2023                        | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | SOUTH-TSP-509   | 9-Oct-2023                        | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTHWEST-TSP-509   | 9-Oct-2023                        | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTH-TSP-510   | 15-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | SOUTH-TSP-510   | 15-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTHWEST-TSP-510   | 15-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTH-TSP-511   | 21-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | SOUTH-TSP-511   | 21-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTHWEST-TSP-511   | 21-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTH-TSP-512   | 27-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | SOUTH-TSP-512   | 27-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTHWEST-TSP-512   | 27-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | TRIP BLANK - October TSP  | 31-Oct-2023                       | 12:00           | Air         | X   |              |                         |                         |                      |   |
|   | NORTH-PM2.5-508   | 3-Oct-2023                        | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | SOUTH-PM2.5-508   | 3-Oct-2023                        | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-508   | 3-Oct-2023                        | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTH-PM2.5-509   | 9-Oct-2023                        | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | SOUTH-PM2.5-509   | 9-Oct-2023                        | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-509   | 9-Oct-2023                        | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTH-PM2.5-510   | 15-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | SOUTH-PM2.5-510   | 15-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-510   | 15-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTH-PM2.5-511   | 21-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | SOUTH-PM2.5-511   | 21-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-511   | 21-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTH-PM2.5-512   | 27-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | SOUTH-PM2.5-512   | 27-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-512   | 27-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | TRIP BLANK - October- PM2.5   | 31-Oct-2023                       | 12:00           | Air         |   | X            |                         |                         |                      |   |
|   | Dustfall- Northwest   | 31-Oct-2023                       | 12:00           | Air         |   |              | X                       |                         |                      |   |
|   | Dustfall - Trip Blank   | 31-Oct-2023                       | 12:00           | Air         |   |              | X                       |                         |                      |   |
|   | Dustfall - North  | 31-Oct-2023                       | 12:00           | Air         |   |              | X                       |                         |                      |   |
|   | Dustfall - South  | 31-Oct-2023                       | 12:00           | Air         |   |              | X                       |                         |                      |   |
| Special Instructions / Regulations / Hazardous Details  |   |                                   |                 |             |   |              |                         |                         |                      |   |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |   |                                   |                 |             |   |              |                         |                         |                      |   |
| Released by:  | Date (dd-mm-yy)   | Time (hh:mm)                      | Received by:    | Date:       | Time:   | Temperature: | Verified by:            | Date:                   | Time:                | Observations:<br>Yes / No ?<br>If Yes add SIF |
|   |   |                                   | AARON BURTON    | 10-Nov 2023 | 8:30  | 15.0 °C      |                         |                         |                      |   |

Environmental Division  
 Burlington  
 Work Order Reference  
**BU2300106**

Telephone : - 1 905 331 3111



## CERTIFICATE OF ANALYSIS

**Work Order** : **BU2300127**  
**Client** : **New Gold Inc. (Rainy River)**  
**Contact** : Robyn Lloyd  
**Address** : 24 Marr Rd  
                   Barwick ON Canada P0W 1A0  
**Telephone** : 807 234 8200  
**Project** : Air Quality  
**PO** : 4500059107  
**C-O-C number** : ----  
**Sampler** : Client  
**Site** :  
**Quote number** : Air Quality Standing Offer  
**No. of samples received** : 4  
**No. of samples analysed** : 4

**Page** : 1 of 5  
**Laboratory** : ALS Environmental - Burlington  
**Account Manager** : Claire Kocharakkal  
**Address** : 1435 Norjohn Court, Unit 1  
                   Burlington ON Canada L7L 0E6  
**Telephone** : +1 905 331 3111  
**Date Samples Received** : 07-Dec-2023 13:50  
**Date Analysis Commenced** : 08-Dec-2023  
**Issue Date** : 29-Dec-2023 12:47

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>      | <i>Laboratory Department</i>          |
|--------------------|----------------------|---------------------------------------|
| Aaron Burton       | Login                | Administration, Burlington, Ontario   |
| Leon Yang          | Analyst              | Inorganics, Burnaby, British Columbia |
| Robin Weeks        | Team Leader - Metals | Metals, Burnaby, British Columbia     |
| Sam Silveira       | Lab Assistant        | Metals, Burnaby, British Columbia     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| <i>Qualifier</i> | <i>Description</i>                              |
|------------------|---|
| DLA              | Detection Limit adjusted for required dilution. |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                              |            |              |           |                         | North-Dustfall       | South-Dustfall       | Northwest-Dustfall   | Dustfall-Trip Blank  | ----  |
|------------------------------|------------|--------------|-----------|-------------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Client sampling date / time  |            |              |           |                         | 01-Dec-2023<br>00:00 | 01-Dec-2023<br>00:00 | 01-Dec-2023<br>00:00 | 01-Dec-2023<br>00:00 | ----  |
| Analyte                      | CAS Number | Method/Lab   | LOR       | Unit                    | BU2300127-001        | BU2300127-002        | BU2300127-003        | BU2300127-004        | ----- |
|                              |            |              |           |                         | Result               | Result               | Result               | Result               | ----  |
| <b>Field Tests</b>           |            |              |           |                         |                      |                      |                      |                      |       |
| Area sampled, field          | ----       | EF001A/VA    | 0.010     | cm <sup>2</sup>         | 55.4                 | 55.4                 | 55.4                 | 55.4                 | ----  |
| Sampling time, field         | ----       | EF001B/BU    | 1         | days                    | 32                   | 32                   | 32                   | 32                   | ----  |
| <b>Particulates</b>          |            |              |           |                         |                      |                      |                      |                      |       |
| Dustfall, fixed insoluble    | ----       | EC885.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.40                 | 0.59                 | <0.11                | <0.11                | ----  |
| Dustfall, volatile insoluble | ----       | EC885V.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | <0.10                | 0.12                 | <0.10                | ----  |
| Dustfall, total insoluble    | ----       | EC882.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | 0.46                 | 0.64                 | 0.12                 | <0.11                | ----  |
| Dustfall, fixed soluble      | ----       | EC884.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | <0.11                | <0.11                | <0.11                | <0.11                | ----  |
| Dustfall, volatile soluble   | ----       | EC884V.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | 0.12                 | <0.10                | <0.10                | ----  |
| Dustfall, total soluble      | ----       | EC881.A/VA   | 0.10      | mg/dm <sup>2</sup> .day | <0.11                | 0.12                 | <0.11                | <0.11                | ----  |
| Dustfall, fixed              | ----       | EC883F.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | 0.40                 | 0.59                 | <0.21                | <0.21                | ----  |
| Dustfall, volatile           | ----       | EC883V2.A/VA | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | 0.17                 | 0.12                 | <0.10                | ----  |
| Dustfall, total              | ----       | EC880T.A/VA  | 0.10      | mg/dm <sup>2</sup> .day | 0.46                 | 0.76                 | <0.21                | <0.21                | ----  |
| Dustfall, fixed insoluble    | ----       | E885/VA      | 1.9       | mg                      | 7.1                  | 10.4                 | <1.9                 | <1.9                 | ----  |
| Dustfall, total insoluble    | ----       | E882/VA      | 1.9       | mg                      | 8.2                  | 11.3                 | 2.2                  | <1.9                 | ----  |
| Dustfall, fixed soluble      | ----       | E884/VA      | 1.9       | mg                      | <1.9                 | <1.9                 | <1.9                 | <1.9                 | ----  |
| Dustfall, total soluble      | ----       | E881/VA      | 1.9       | mg                      | <1.9                 | 2.1                  | <1.9                 | <1.9                 | ----  |
| <b>Total Metals</b>          |            |              |           |                         |                      |                      |                      |                      |       |
| Aluminum, total              | 7429-90-5  | EC447/VA     | 0.000160  | mg/dm <sup>2</sup> .day | 0.00313              | 0.00688              | 0.00115              | <0.000169            | ----  |
| Antimony, total              | 7440-36-0  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000028           | <0.0000028           | <0.0000028           | <0.0000028           | ----  |
| Arsenic, total               | 7440-38-2  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000045            | 0.0000067            | <0.0000028           | <0.0000028           | ----  |
| Barium, total                | 7440-39-3  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000257            | 0.0000351            | 0.0000209            | <0.0000028           | ----  |
| Beryllium, total             | 7440-41-7  | EC447/VA     | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000014            | <0.000014            | <0.000014            | ----  |
| Bismuth, total               | 7440-69-9  | EC447/VA     | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000014            | <0.000014            | <0.000014            | ----  |
| Boron, total                 | 7440-42-8  | EC447/VA     | 0.00026   | mg/dm <sup>2</sup> .day | <0.00028             | <0.00028             | <0.00028             | <0.00028             | ----  |
| Cadmium, total               | 7440-43-9  | EC447/VA     | 0.0000013 | mg/dm <sup>2</sup> .day | <0.0000013           | 0.0000014            | <0.0000013           | <0.0000013           | ----  |
| Calcium, total               | 7440-70-2  | EC447/VA     | 0.00052   | mg/dm <sup>2</sup> .day | 0.0190               | 0.0223               | 0.00987              | 0.00073              | ----  |
| Chromium, total              | 7440-47-3  | EC447/VA     | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | 0.000015             | <0.000014            | <0.000014            | ----  |
| Cobalt, total                | 7440-48-4  | EC447/VA     | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000028           | 0.0000036            | <0.0000028           | <0.0000028           | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | North-Dustfall       | South-Dustfall       | Northwest-Dustfall   | Dustfall-Trip Blank  | ----  |
|-----------------------------|------------|------------|------------|-------------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Client sampling date / time |            |            |            |                         | 01-Dec-2023<br>00:00 | 01-Dec-2023<br>00:00 | 01-Dec-2023<br>00:00 | 01-Dec-2023<br>00:00 | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | BU2300127-001        | BU2300127-002        | BU2300127-003        | BU2300127-004        | ----- |
|                             |            |            |            |                         | Result               | Result               | Result               | Result               | ----  |
| <b>Total Metals</b>         |            |            |            |                         |                      |                      |                      |                      |       |
| Copper, total               | 7440-50-8  | EC447/VA   | 0.000026   | mg/dm <sup>3</sup> .day | <0.000028            | 0.000032             | <0.000028            | <0.000028            | ----  |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079    | mg/dm <sup>3</sup> .day | 0.00305              | 0.00846              | 0.00135              | <0.00084             | ----  |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.0000013  | mg/dm <sup>3</sup> .day | 0.0000066            | 0.0000200            | 0.0000016            | <0.0000014           | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>3</sup> .day | <0.00014             | <0.00014             | <0.00014             | <0.00014             | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>3</sup> .day | 0.00386              | 0.00604              | 0.00209              | <0.00014             | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>3</sup> .day | 0.0000908            | 0.000373             | 0.0000897            | <0.0000056           | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>3</sup> .day | <0.0000056           | <0.0000058           | <0.0000061           | <0.0000068           | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>3</sup> .day | <0.0000014           | <0.0000014           | <0.0000014           | <0.0000014           | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>3</sup> .day | <0.000014            | 0.000024             | <0.000014            | <0.000014            | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | <0.0014              | <0.0014              | <0.0014              | <0.0014              | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | <0.0014              | 0.0015               | <0.0014              | <0.0014              | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>3</sup> .day | <0.000028            | <0.000028            | <0.000028            | <0.000028            | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | 0.0040               | 0.0091               | 0.0017               | <0.0014              | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>3</sup> .day | <0.00000028          | 0.00000036           | <0.00000028          | <0.00000028          | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>3</sup> .day | <0.0014              | <0.0014              | <0.0014              | <0.0014              | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | 0.0000311            | 0.0000422            | 0.0000164            | <0.0000028           | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | <0.0000028           | <0.0000028           | <0.0000028           | <0.0000028           | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | <0.0000028           | <0.0000028           | <0.0000028           | <0.0000028           | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>3</sup> .day | <0.00028             | <0.00028             | <0.00028             | <0.00028             | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>3</sup> .day | <0.0000026           | <0.0000026           | <0.0000026           | <0.0000026           | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>3</sup> .day | <0.000028            | <0.000028            | <0.000028            | <0.000028            | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>3</sup> .day | 0.000102             | 0.000299             | <0.000084            | <0.000084            | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | 0.0555               | 0.122                | 0.0204               | <0.0030              | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | <0.000050            | <0.000050            | <0.000050            | <0.000050            | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | 0.000080             | 0.000119             | <0.000050            | <0.000050            | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | 0.000455             | 0.000623             | 0.000371             | <0.000050            | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025             | <0.00025             | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025             | <0.00025             | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050              | <0.0050              | <0.0050              | <0.0050              | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | <0.000020            | 0.000025             | <0.000020            | <0.000020            | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | North-Dustfall           | South-Dustfall           | Northwest-Dustfall       | Dustfall-Trip Blank      | ----  |
|-----------------------------|------------|------------|-----------|------|--------------------------|--------------------------|--------------------------|--------------------------|-------|
| Client sampling date / time |            |            |           |      | 01-Dec-2023<br>00:00     | 01-Dec-2023<br>00:00     | 01-Dec-2023<br>00:00     | 01-Dec-2023<br>00:00     | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2300127-001            | BU2300127-002            | BU2300127-003            | BU2300127-004            | ----- |
|                             |            |            |           |      | Result                   | Result                   | Result                   | Result                   | ----  |
| <b>Total Metals</b>         |            |            |           |      |                          |                          |                          |                          |       |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010     | mg   | 0.337                    | 0.395                    | 0.175                    | 0.013                    | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025   | mg   | <0.00025                 | 0.00026                  | <0.00025                 | <0.00025                 | ----  |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | <0.000050                | 0.000064                 | <0.000050                | <0.000050                | ----  |
| Copper, total               | 7440-50-8  | E447/VA    | 0.00050   | mg   | <0.00050                 | 0.00056                  | <0.00050                 | <0.00050                 | ----  |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.054                    | 0.150                    | 0.024                    | <0.015                   | ----  |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | 0.000117                 | 0.000354                 | 0.000029                 | <0.000025                | ----  |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025                  | <0.0025                  | <0.0025                  | <0.0025                  | ----  |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.0684                   | 0.107                    | 0.0370                   | <0.0025                  | ----  |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.00161                  | 0.00661                  | 0.00159                  | <0.00010                 | ----  |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000100 <sup>DLA</sup> | <0.000102 <sup>DLA</sup> | <0.000108 <sup>DLA</sup> | <0.000120 <sup>DLA</sup> | ----  |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | <0.000025                | <0.000025                | <0.000025                | <0.000025                | ----  |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | <0.00025                 | 0.00043                  | <0.00025                 | <0.00025                 | ----  |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | <0.025                   | <0.025                   | <0.025                   | <0.025                   | ----  |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | <0.025                   | 0.026                    | <0.025                   | <0.025                   | ----  |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050                 | <0.00050                 | <0.00050                 | <0.00050                 | ----  |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | 0.071                    | 0.162                    | 0.031                    | <0.025                   | ----  |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | <0.0000050               | 0.0000063                | <0.0000050               | <0.0000050               | ----  |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | <0.025                   | <0.025                   | <0.025                   | <0.025                   | ----  |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.000551                 | 0.000748                 | 0.000290                 | <0.000050                | ----  |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050                | <0.000050                | <0.000050                | <0.000050                | ----  |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050                | <0.000050                | <0.000050                | <0.000050                | ----  |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050                  | <0.0050                  | <0.0050                  | <0.0050                  | ----  |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050               | <0.0000050               | <0.0000050               | <0.0000050               | ----  |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050                 | <0.00050                 | <0.00050                 | <0.00050                 | ----  |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | 0.0018                   | 0.0053                   | <0.0015                  | <0.0015                  | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



## QUALITY CONTROL INTERPRETIVE REPORT

|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2300127</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4500059107</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 11</p> <p><b>Laboratory</b> : ALS Environmental - Burlington</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 07-Dec-2023 13:50</p> <p><b>Issue Date</b> : 29-Dec-2023 12:47</p> |
|---|--|

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

### ***Workorder Comments***

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### ***Summary of Outliers***

#### ***Outliers : Quality Control Samples***

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### ***Outliers: Reference Material (RM) Samples***

- No Reference Material (RM) Sample outliers occur.



***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



**Outliers : Quality Control Samples**

*Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes*

Matrix: Air

| Analyte Group               | Laboratory sample ID | Client/Ref Sample ID | Analyte     | CAS Number | Method | Result       | Limits | Comment  |
|-----------------------------|----------------------|----------------------|-------------|------------|--------|--------------|--------|--|
| <b>Duplicate (DUP) RPDs</b> |                      |                      |             |            |        |              |        |  |
| Total Metals                | BU2300127-001        | North-Dustfall       | Lead, total | 7439-92-1  | E447   | 44.1 % DUP-H | 40%    | Duplicate RPD does not meet the DQO for this test. |

**Result Qualifiers**

| Qualifier | Description   |
|-----------|---|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | EF001A | 01-Dec-2023   | ----                     | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>North-Dustfall               | EF001A | 01-Dec-2023   | ----                     | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Northwest-Dustfall           | EF001A | 01-Dec-2023   | ----                     | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>South-Dustfall               | EF001A | 01-Dec-2023   | ----                     | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | EF001B | 01-Dec-2023   | ----                     | ----          | ----   |      | 08-Dec-2023   | ----          | 7 days  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>North-Dustfall               | EF001B | 01-Dec-2023   | ----                     | ----          | ----   |      | 08-Dec-2023   | ----          | 7 days  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Northwest-Dustfall           | EF001B | 01-Dec-2023   | ----                     | ----          | ----   |      | 08-Dec-2023   | ----          | 7 days  |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>South-Dustfall        | EF001B | 01-Dec-2023   | ----                     | ----          | ----   |      | 08-Dec-2023   | ----          | 7 days  |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank   | E885   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>North-Dustfall        | E885   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Northwest-Dustfall    | E885   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>South-Dustfall        | E885   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank   | E884   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>North-Dustfall        | E884   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Northwest-Dustfall    | E884   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>South-Dustfall        | E884   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----   |      | 21-Dec-2023   | ----          | 21 days |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E882   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>North-Dustfall               | E882   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Northwest-Dustfall           | E882   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>South-Dustfall               | E882   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E881   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>North-Dustfall               | E881   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Northwest-Dustfall           | E881   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>South-Dustfall               | E881   | 01-Dec-2023   | 21-Dec-2023              | ----          | ----    |      | 21-Dec-2023   | ----          | 21 days |      |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E516   | 01-Dec-2023   | 20-Dec-2023              | 180 days      | 20 days | ✔    | 27-Dec-2023   | 180 days      | 7 days  | ✔    |



Matrix: Air Evaluation: \* = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>North-Dustfall               | E516   | 01-Dec-2023   | 20-Dec-2023              | 180 days      | 20 days | ✓    | 27-Dec-2023   | 180 days      | 7 days  | ✓    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Northwest-Dustfall           | E516   | 01-Dec-2023   | 20-Dec-2023              | 180 days      | 20 days | ✓    | 27-Dec-2023   | 180 days      | 7 days  | ✓    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>South-Dustfall               | E516   | 01-Dec-2023   | 20-Dec-2023              | 180 days      | 20 days | ✓    | 27-Dec-2023   | 180 days      | 7 days  | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E447   | 01-Dec-2023   | 22-Dec-2023              | 180 days      | 22 days | ✓    | 22-Dec-2023   | 180 days      | 22 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>North-Dustfall               | E447   | 01-Dec-2023   | 22-Dec-2023              | 180 days      | 22 days | ✓    | 22-Dec-2023   | 180 days      | 22 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Northwest-Dustfall           | E447   | 01-Dec-2023   | 22-Dec-2023              | 180 days      | 22 days | ✓    | 22-Dec-2023   | 180 days      | 22 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>South-Dustfall               | E447   | 01-Dec-2023   | 22-Dec-2023              | 180 days      | 22 days | ✓    | 22-Dec-2023   | 180 days      | 22 days | ✓    |  |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1284731  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1284730  | 1     | 4       | 25.0          | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1284639  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1284640  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1284642  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1284731  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1284730  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1284641  | 1     | 4       | 25.0          | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1284639  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1284640  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1284642  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1284731  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1284730  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1284641  | 1     | 4       | 25.0          | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1284731  | 1     | 4       | 25.0          | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods   | Method / Lab                              | Matrix | Method Reference            | Method Descriptions   |
|--|---|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)                   | E447<br>ALS Environmental - Vancouver     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)                      | E516<br>ALS Environmental - Vancouver     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)                 | E881<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)               | E882<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)                 | E884<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)                | E885<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm <sup>2</sup> .day)  | EC447<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day by field information.  |
| Total Mercury by CVAAS (Dustfall, mg/dm <sup>2</sup> .day) | EC516<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day based on field information.  |
| Total Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC880T.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |





| Analytical Methods  | Method / Lab                               | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                   |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                 |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>ALS Environmental - Vancouver    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>ALS Environmental - Burlington   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|



| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                    | <i>Matrix</i> | <i>Method Reference</i>     | <i>Method Descriptions</i>  |
|---|--|---------------|-----------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br>ALS Environmental - Vancouver | Air           | EPA 6020A                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br>ALS Environmental - Vancouver | Air           | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br>ALS Environmental - Vancouver | Air           | BC LAB MANUAL - PARTICULATE | Dustfall sample preparation.  |

## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2300127</b>                        | <b>Page</b>                    | <b>: 1 of 8</b>  |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : ALS Environmental - Burlington                                   |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 07-Dec-2023 13:50  |
| <b>PO</b>                      | : 4500059107                              | <b>Date Analysis Commenced</b> | : 08-Dec-2023  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 29-Dec-2023 12:47  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 4                                       |                                |  |
| <b>No. of samples analysed</b> | : 4                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>      | <i>Laboratory Department</i>                    |
|--------------------|----------------------|---|
| Aaron Burton       | Login                | Burlington Administration, Burlington, Ontario  |
| Leon Yang          | Analyst              | Vancouver Inorganics, Burnaby, British Columbia |
| Robin Weeks        | Team Leader - Metals | Vancouver Metals, Burnaby, British Columbia     |
| Sam Silveira       | Lab Assistant        | Vancouver Metals, Burnaby, British Columbia     |

Page : 2 of 8  
Work Order : BU2300127  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality

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## **General Comments**

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## **Workorder Comments**

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air

|                                       |                  |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---------------------------------------|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                  | Client sample ID | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1284730)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300127-001                         | North-Dustfall   | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | 0.0555          | 0.0526           | 5.34%                | 40%              | ---       |
|                                       |                  | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | 0.000080        | 0.000076         | 0.000004             | Diff <2x LOR     | ---       |
|                                       |                  | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | 0.000455        | 0.000449         | 1.23%                | 40%              | ---       |
|                                       |                  | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | <0.000020       | 0.000029         | 0.000009             | Diff <2x LOR     | ---       |
|                                       |                  | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | 0.337           | 0.329            | 2.53%                | 30%              | ---       |
|                                       |                  | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | 0.054           | 0.053            | 0.002                | Diff <2x LOR     | ---       |
|                                       |                  | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | 0.000117        | 0.000183         | 44.1%                | 40%              | DUP-H     |
|                                       |                  | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | 0.0684          | 0.0672           | 1.75%                | 30%              | ---       |
|                                       |                  | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | 0.00161         | 0.00154          | 4.35%                | 30%              | ---       |
|                                       |                  | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | 0.071           | 0.073            | 0.002                | Diff <2x LOR     | ---       |
|                                       |                  | Silver, total     | 7440-22-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | 0.000551        | 0.000548         | 0.548%               | 40%              | ---       |
|                                       |                  | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Titanium, total   | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ---       |
|                                       |                  | Uranium, total    | 7440-61-1  | E447   | 0.0000050                         | mg   | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ---       |



| Sub-Matrix: Air                                   |                  |                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---|------------------|-----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                              | Client sample ID | Analyte         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1284730) - continued</b> |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300127-001                                     | North-Dustfall   | Vanadium, total | 7440-62-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Zinc, total     | 7440-66-6  | E447   | 0.0015                            | mg   | 0.0018          | 0.0018           | 0.00004              | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1284731)</b>             |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2300127-001                                     | North-Dustfall   | Mercury, total  | 7439-97-6  | E516   | 0.000100                          | mg   | <0.000100       | <0.000100        | 0                    | Diff <2x LOR     | ----      |

### Qualifiers

| Qualifier | Description   |
|-----------|---|
| DUP-H     | Duplicate results outside ALS DQO, due to sample heterogeneity. |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                              | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--------------------------------------|------------|--------|----------|------|------------|-----------|
| <b>Particulates (QCLot: 1284639)</b> |            |        |          |      |            |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1284640)</b> |            |        |          |      |            |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1284641)</b> |            |        |          |      |            |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1284642)</b> |            |        |          |      |            |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | <1.9       | ---       |
| <b>Total Metals (QCLot: 1284730)</b> |            |        |          |      |            |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ---       |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ---       |



Sub-Matrix: Air

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1284730) - continued</b> |            |        |          |      |            |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 1284731)</b>             |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |





## Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                      |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|                                      |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                              | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Particulates (QCLot: 1284639)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble            | ----       | E885   | 1.9      | mg   | 30 mg                                  | 102          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1284640)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble              | ----       | E884   | 1.9      | mg   | 119 mg                                 | 104          | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1284641)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble              | ----       | E881   | 1.9      | mg   | 200 mg                                 | 99.5         | 85.0                | 115  | ----      |
| <b>Particulates (QCLot: 1284642)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble            | ----       | E882   | 1.9      | mg   | 30 mg                                  | 103          | 85.0                | 115  | ----      |
| <b>Total Metals (QCLot: 1284730)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 108          | 80.0                | 120  | ----      |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 108          | 80.0                | 120  | ----      |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 106          | 80.0                | 120  | ----      |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 109          | 80.0                | 120  | ----      |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 103          | 80.0                | 120  | ----      |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 99.0         | 80.0                | 120  | ----      |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 91.9         | 80.0                | 120  | ----      |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 111          | 80.0                | 120  | ----      |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 99.6         | 80.0                | 120  | ----      |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ----      |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 106          | 80.0                | 120  | ----      |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 105          | 80.0                | 120  | ----      |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ----      |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 110          | 80.0                | 120  | ----      |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ----      |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ----      |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 115          | 80.0                | 120  | ----      |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 109          | 80.0                | 120  | ----      |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 108          | 80.0                | 120  | ----      |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 107          | 80.0                | 120  | ----      |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 96.4         | 80.0                | 120  | ----      |



| Sub-Matrix: Air                                  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Analyte  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 1284730) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 111          | 80.0                | 120  | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 106          | 80.0                | 120  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 102          | 80.0                | 120  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 99.7         | 80.0                | 120  | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 107          | 80.0                | 120  | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 106          | 80.0                | 120  | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 108          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 1284731)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 110          | 70.0                | 130  | ----      |

### Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Sub-Matrix: Air                      |                  |                |            |        | Matrix Spike (MS) Report |              |                     |      |           |           |
|--------------------------------------|------------------|----------------|------------|--------|--------------------------|--------------|---------------------|------|-----------|-----------|
|                                      |                  |                |            |        | Spike                    | Recovery (%) | Recovery Limits (%) |      | Qualifier |           |
| Laboratory sample ID                 | Client sample ID | Analyte        | CAS Number | Method | Concentration            | Target       | MS                  | Low  | High      | Qualifier |
| <b>Total Metals (QCLot: 1284731)</b> |                  |                |            |        |                          |              |                     |      |           |           |
| BU2300127-002                        | South-Dustfall   | Mercury, total | 7439-97-6  | E516   | 0.00222 mg               | 0.00205 mg   | 108                 | 70.0 | 130       | ----      |



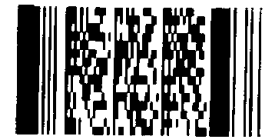
L2753895-COFC



Chain of Custody / Analytical Request Form  
1435 NorJohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

| <b>Report To</b>                             |   | <b>Report Format / Distribution</b> |                 |             | <b>Service Requested</b>                                   |        |                         |                         |                      |                      |
|--|---|-------------------------------------|-----------------|-------------|--|--------|-------------------------|-------------------------|----------------------|----------------------|
| Company: New Gold Inc.                       |   |                                     |                 |             | Regular Service  |        |                         |                         |                      |                      |
| Contact: Robyn Lloyd                         |   |                                     |                 |             | Rush Service (with prior consultation) - surcharge applies |        |                         |                         |                      |                      |
| Address: 1361 Reen Road, Chapple, ON P0W 1A0 |   | Email 1: robyn.lloyd@newgold.com    |                 |             | Other - Please contact ALS                                 |        |                         |                         |                      |                      |
| Phone: 1807-234-8200 ext. 8029 Fax:          |   | Email 2:                            |                 |             | <b>Analysis Request</b>                                    |        |                         |                         |                      |                      |
| <b>Invoice To</b> Same as Report             |   | <b>Client / Project Information</b> |                 |             | TSP and Metals   | Pm 2.5 | Dustfall Incl. volatile | Hazardous? Provide Det. | Highly Contaminated? | Number of Containers |
| Company:                                     |   | Job #: Air Quality                  |                 |             |  |        |                         |                         |                      |                      |
| Contact:                                     |   | Location:                           |                 |             |  |        |                         |                         |                      |                      |
| Address:                                     |   | PO: 4500059107                      |                 |             |  |        |                         |                         |                      |                      |
| Phone:                                       |   | Sampled by:                         |                 |             |  |        |                         |                         |                      |                      |
| Lab Work Order #                             |   | ALS Contact:                        |                 |             |  |        |                         |                         |                      |                      |
| Sample #                                     | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)                  | Time<br>(hh:mm) | Sample Type |  |        |                         |                         |                      |                      |
|  | NORTH-TSP-513   | 2-Nov-2023                          | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-513   | 2-Nov-2023                          | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-513   | 2-Nov-2023                          | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-514   | 8-Nov-2023                          | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-514   | 8-Nov-2023                          | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-514   | 8-Nov-2023                          | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-515   | 14-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-515   | 14-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-515   | 14-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-516   | 20-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-516   | 20-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-516   | 20-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-TSP-517   | 26-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | SOUTH-TSP-517   | 26-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTHWEST-TSP-517   | 26-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | TRIP BLANK - November TSP   | 30-Nov-2023                         | 12:00           | Air         | X  |        |                         |                         |                      |                      |
|  | NORTH-PM2.5-513   | 2-Nov-2023                          | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-513   | 2-Nov-2023                          | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-513   | 2-Nov-2023                          | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-514   | 8-Nov-2023                          | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-514   | 8-Nov-2023                          | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-514   | 8-Nov-2023                          | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-515   | 14-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-515   | 14-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-515   | 14-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-516   | 20-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-516   | 20-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-516   | 20-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTH-PM2.5-517   | 26-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | SOUTH-PM2.5-517   | 26-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | NORTHWEST-PM2.5-517   | 26-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | TRIP BLANK - November- PM2.5  | 30-Nov-2023                         | 12:00           | Air         | X  | X      |                         |                         |                      |                      |
|  | Dustfall - Northwest  | 1-Dec-2023                          | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | Dustfall - Trip Blank   | 1-Dec-2023                          | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | Dustfall - North  | 1-Dec-2023                          | 12:00           | Air         |  | X      |                         |                         |                      |                      |
|  | Dustfall - South  | 1-Dec-2023                          | 12:00           | Air         |  | X      |                         |                         |                      |                      |

Environmental Division  
Burlington  
Work Order Reference  
**BU2300127**



Telephone : -1 905 331 3111

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS

|              |                 |            |              |               |       |              |              |       |       |   |
|--------------|-----------------|------------|--------------|---------------|-------|--------------|--------------|-------|-------|---|
| Released by: | Date (dd-mm-yy) | Time (h-m) | Received by: | Date:         | Time: | Temperature: | Verified by: | Date: | Time: | Observations:<br>Yes / No ?<br>If Yes add SIF |
|              |                 |            | ARROW BURTON | 7-Dec<br>2023 | 13:50 | 18.7<br>°C   |              |       |       |   |



## CERTIFICATE OF ANALYSIS

|   |   |
|---|---|
| <p><b>Work Order</b> : <b>BU2400000</b></p> <p>Client : <b>New Gold Inc. (Rainy River)</b></p> <p>Contact : Robyn Lloyd</p> <p>Address : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p>Telephone : 807 234 8200</p> <p>Project : Air Quality</p> <p>PO : 4500059107</p> <p>C-O-C number : ----</p> <p>Sampler : Client</p> <p>Site :</p> <p>Quote number : Air Quality Standing Offer</p> <p>No. of samples received : 4</p> <p>No. of samples analysed : 4</p> | <p>Page : 1 of 5</p> <p>Laboratory : ALS Environmental - Burlington</p> <p>Account Manager : Claire Kocharakkal</p> <p>Address : 1435 Norjohn Court, Unit 1<br/>Burlington ON Canada L7L 0E6</p> <p>Telephone : +1 905 331 3111</p> <p>Date Samples Received : 04-Jan-2024 11:40</p> <p>Date Analysis Commenced : 04-Jan-2024</p> <p>Issue Date : 25-Jan-2024 18:09</p> |
|---|---|

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>             | <i>Laboratory Department</i>          |
|--------------------|-----------------------------|---------------------------------------|
| Aaron Burton       | Login                       | Administration, Burlington, Ontario   |
| Alex Thornton      | Analyst                     | Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals | Inorganics, Burnaby, British Columbia |
| Kim Jensen         | Department Manager - Metals | Metals, Burnaby, British Columbia     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

| <i>Unit</i>             | <i>Description</i>                      |
|-------------------------|---|
| cm <sup>2</sup>         | square centimetres                      |
| days                    | days                                    |
| mg                      | milligrams                              |
| mg/dm <sup>2</sup> .day | milligrams per square decimetre per day |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                              |            |                  |           |                         | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|------------------------------|------------|------------------|-----------|-------------------------|----------------------|----------------------|------------------------|------------------------|-------|
| Client sampling date / time  |            |                  |           |                         | 31-Dec-2023<br>00:00 | 31-Dec-2023<br>00:00 | 31-Dec-2023<br>00:00   | 31-Dec-2023<br>00:00   | ----  |
| Analyte                      | CAS Number | Method/Lab       | LOR       | Unit                    | BU2400000-001        | BU2400000-002        | BU2400000-003          | BU2400000-004          | ----- |
|                              |            |                  |           |                         | Result               | Result               | Result                 | Result                 | ----  |
| <b>Field Tests</b>           |            |                  |           |                         |                      |                      |                        |                        |       |
| Area sampled, field          | ----       | EF001A/VA        | 0.010     | cm <sup>2</sup>         | 55.4                 | 55.4                 | 55.4                   | 55.4                   | ----  |
| Sampling time, field         | ----       | EF001B/BU        | 1         | days                    | 31                   | 31                   | 31                     | 31                     | ----  |
| <b>Particulates</b>          |            |                  |           |                         |                      |                      |                        |                        |       |
| Dustfall, fixed insoluble    | ----       | EC885.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.36                 | 0.39                 | <0.11                  | <0.11                  | ----  |
| Dustfall, volatile insoluble | ----       | EC885V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | <0.10                | <0.10                | <0.10                  | <0.10                  | ----  |
| Dustfall, total insoluble    | ----       | EC882.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.40                 | 0.40                 | <0.11                  | <0.11                  | ----  |
| Dustfall, fixed soluble      | ----       | EC884.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | <0.11                | <0.11                | <0.11                  | <0.11                  | ----  |
| Dustfall, volatile soluble   | ----       | EC884V.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.18                 | <0.10                | 0.13                   | <0.10                  | ----  |
| Dustfall, total soluble      | ----       | EC881.A/VA       | 0.10      | mg/dm <sup>2</sup> .day | 0.18                 | <0.11                | 0.13                   | <0.11                  | ----  |
| Dustfall, fixed              | ----       | EC883F.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.36                 | 0.39                 | <0.22                  | <0.22                  | ----  |
| Dustfall, volatile           | ----       | EC883V2.A/V<br>A | 0.10      | mg/dm <sup>2</sup> .day | 0.22                 | <0.10                | 0.13                   | <0.10                  | ----  |
| Dustfall, total              | ----       | EC880T.A/VA      | 0.10      | mg/dm <sup>2</sup> .day | 0.58                 | 0.40                 | <0.22                  | <0.22                  | ----  |
| Dustfall, fixed insoluble    | ----       | E885/VA          | 1.9       | mg                      | 6.2                  | 6.7                  | <1.9                   | <1.9                   | ----  |
| Dustfall, total insoluble    | ----       | E882/VA          | 1.9       | mg                      | 6.9                  | 6.8                  | <1.9                   | <1.9                   | ----  |
| Dustfall, fixed soluble      | ----       | E884/VA          | 1.9       | mg                      | <1.9                 | <1.9                 | <1.9                   | <1.9                   | ----  |
| Dustfall, total soluble      | ----       | E881/VA          | 1.9       | mg                      | 3.1                  | <1.9                 | 2.2                    | <1.9                   | ----  |
| <b>Total Metals</b>          |            |                  |           |                         |                      |                      |                        |                        |       |
| Aluminum, total              | 7429-90-5  | EC447/VA         | 0.000160  | mg/dm <sup>2</sup> .day | 0.00341              | 0.00378              | 0.000972               | <0.000175              | ----  |
| Antimony, total              | 7440-36-0  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000029           | <0.0000029           | <0.0000029             | <0.0000029             | ----  |
| Arsenic, total               | 7440-38-2  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000062            | 0.0000034            | <0.0000029             | <0.0000029             | ----  |
| Barium, total                | 7440-39-3  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | 0.0000246            | 0.0000196            | 0.0000111              | <0.0000029             | ----  |
| Beryllium, total             | 7440-41-7  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000014            | <0.000014              | <0.000014              | ----  |
| Bismuth, total               | 7440-69-9  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000014            | <0.000014              | <0.000014              | ----  |
| Boron, total                 | 7440-42-8  | EC447/VA         | 0.00026   | mg/dm <sup>2</sup> .day | <0.00029             | <0.00029             | <0.00029               | <0.00029               | ----  |
| Cadmium, total               | 7440-43-9  | EC447/VA         | 0.0000013 | mg/dm <sup>2</sup> .day | <0.0000013           | <0.0000013           | <0.0000013             | <0.0000013             | ----  |
| Calcium, total               | 7440-70-2  | EC447/VA         | 0.00052   | mg/dm <sup>2</sup> .day | 0.0153               | 0.0173               | 0.00757                | <0.00058               | ----  |
| Chromium, total              | 7440-47-3  | EC447/VA         | 0.000013  | mg/dm <sup>2</sup> .day | <0.000014            | <0.000014            | <0.000014              | <0.000014              | ----  |
| Cobalt, total                | 7440-48-4  | EC447/VA         | 0.0000026 | mg/dm <sup>2</sup> .day | <0.0000029           | <0.0000029           | <0.0000029             | <0.0000029             | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |            |                         | Dustfall-North       | Dustfall-South       | Dustfall-Northwest   | Dustfall-Trip Blank  | ----  |
|-----------------------------|------------|------------|------------|-------------------------|----------------------|----------------------|----------------------|----------------------|-------|
| Client sampling date / time |            |            |            |                         | 31-Dec-2023<br>00:00 | 31-Dec-2023<br>00:00 | 31-Dec-2023<br>00:00 | 31-Dec-2023<br>00:00 | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR        | Unit                    | BU2400000-001        | BU2400000-002        | BU2400000-003        | BU2400000-004        | ----- |
|                             |            |            |            |                         | Result               | Result               | Result               | Result               | ----  |
| <b>Total Metals</b>         |            |            |            |                         |                      |                      |                      |                      |       |
| Copper, total               | 7440-50-8  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | 0.000038             | <0.000029            | <0.000029            | <0.000029            | ----  |
| Iron, total                 | 7439-89-6  | EC447/VA   | 0.00079    | mg/dm <sup>2</sup> .day | 0.00390              | 0.00466              | 0.00116              | <0.00087             | ----  |
| Lead, total                 | 7439-92-1  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | 0.0000144            | 0.0000201            | 0.0000027            | <0.0000014           | ----  |
| Lithium, total              | 7439-93-2  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | <0.00014             | <0.00014             | <0.00014             | <0.00014             | ----  |
| Magnesium, total            | 7439-95-4  | EC447/VA   | 0.00013    | mg/dm <sup>2</sup> .day | 0.00329              | 0.00382              | 0.00138              | <0.00014             | ----  |
| Manganese, total            | 7439-96-5  | EC447/VA   | 0.0000052  | mg/dm <sup>2</sup> .day | 0.000416             | 0.000400             | 0.000158             | <0.0000058           | ----  |
| Mercury, total              | 7439-97-6  | EC516/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000014           | <0.0000014           | <0.0000014           | <0.0000014           | ----  |
| Molybdenum, total           | 7439-98-7  | EC447/VA   | 0.0000013  | mg/dm <sup>2</sup> .day | <0.0000014           | <0.0000014           | <0.0000014           | <0.0000014           | ----  |
| Nickel, total               | 7440-02-0  | EC447/VA   | 0.000013   | mg/dm <sup>2</sup> .day | <0.000014            | 0.000020             | <0.000014            | <0.000014            | ----  |
| Phosphorus, total           | 7723-14-0  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0014              | <0.0014              | <0.0014              | <0.0014              | ----  |
| Potassium, total            | 7440-09-7  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0014              | <0.0014              | <0.0014              | <0.0014              | ----  |
| Selenium, total             | 7782-49-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000029            | <0.000029            | <0.000029            | <0.000029            | ----  |
| Silicon, total              | 7440-21-3  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | 0.0048               | 0.0051               | <0.0014              | <0.0014              | ----  |
| Silver, total               | 7440-22-4  | EC447/VA   | 0.00000026 | mg/dm <sup>2</sup> .day | <0.00000029          | <0.00000029          | <0.00000029          | <0.00000029          | ----  |
| Sodium, total               | 7440-23-5  | EC447/VA   | 0.0013     | mg/dm <sup>2</sup> .day | <0.0014              | <0.0014              | <0.0014              | <0.0014              | ----  |
| Strontium, total            | 7440-24-6  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | 0.0000278            | 0.0000275            | 0.0000116            | <0.0000029           | ----  |
| Thallium, total             | 7440-28-0  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000029           | <0.0000029           | <0.0000029           | <0.0000029           | ----  |
| Tin, total                  | 7440-31-5  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000029           | <0.0000029           | <0.0000029           | <0.0000029           | ----  |
| Titanium, total             | 7440-32-6  | EC447/VA   | 0.00026    | mg/dm <sup>2</sup> .day | <0.00029             | <0.00029             | <0.00029             | <0.00029             | ----  |
| Uranium, total              | 7440-61-1  | EC447/VA   | 0.0000026  | mg/dm <sup>2</sup> .day | <0.0000026           | <0.0000026           | <0.0000026           | <0.0000026           | ----  |
| Vanadium, total             | 7440-62-2  | EC447/VA   | 0.000026   | mg/dm <sup>2</sup> .day | <0.000029            | <0.000029            | <0.000029            | <0.000029            | ----  |
| Zinc, total                 | 7440-66-6  | EC447/VA   | 0.000079   | mg/dm <sup>2</sup> .day | 0.000186             | 0.000169             | <0.000087            | <0.000087            | ----  |
| Aluminum, total             | 7429-90-5  | E447/VA    | 0.0030     | mg                      | 0.0586               | 0.0649               | 0.0167               | <0.0030              | ----  |
| Antimony, total             | 7440-36-0  | E447/VA    | 0.000050   | mg                      | <0.000050            | <0.000050            | <0.000050            | <0.000050            | ----  |
| Arsenic, total              | 7440-38-2  | E447/VA    | 0.000050   | mg                      | 0.000106             | 0.000058             | <0.000050            | <0.000050            | ----  |
| Barium, total               | 7440-39-3  | E447/VA    | 0.000050   | mg                      | 0.000423             | 0.000336             | 0.000190             | <0.000050            | ----  |
| Beryllium, total            | 7440-41-7  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025             | <0.00025             | ----  |
| Bismuth, total              | 7440-69-9  | E447/VA    | 0.00025    | mg                      | <0.00025             | <0.00025             | <0.00025             | <0.00025             | ----  |
| Boron, total                | 7440-42-8  | E447/VA    | 0.0050     | mg                      | <0.0050              | <0.0050              | <0.0050              | <0.0050              | ----  |
| Cadmium, total              | 7440-43-9  | E447/VA    | 0.000020   | mg                      | <0.000020            | <0.000020            | <0.000020            | <0.000020            | ----  |



## Analytical Results

Sub-Matrix: Dustfall

Client sample ID

(Matrix: Air)

|                             |            |            |           |      | Dustfall-North       | Dustfall-South       | Dustfall-Northw<br>est | Dustfall-Trip<br>Blank | ----  |
|-----------------------------|------------|------------|-----------|------|----------------------|----------------------|------------------------|------------------------|-------|
| Client sampling date / time |            |            |           |      | 31-Dec-2023<br>00:00 | 31-Dec-2023<br>00:00 | 31-Dec-2023<br>00:00   | 31-Dec-2023<br>00:00   | ----  |
| Analyte                     | CAS Number | Method/Lab | LOR       | Unit | BU2400000-001        | BU2400000-002        | BU2400000-003          | BU2400000-004          | ----- |
|                             |            |            |           |      | Result               | Result               | Result                 | Result                 | ----  |
| <b>Total Metals</b>         |            |            |           |      |                      |                      |                        |                        |       |
| Calcium, total              | 7440-70-2  | E447/VA    | 0.010     | mg   | 0.263                | 0.297                | 0.130                  | <0.010                 | ----  |
| Chromium, total             | 7440-47-3  | E447/VA    | 0.00025   | mg   | <0.00025             | <0.00025             | <0.00025               | <0.00025               | ----  |
| Cobalt, total               | 7440-48-4  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000050            | <0.000050              | <0.000050              | ----  |
| Copper, total               | 7440-50-8  | E447/VA    | 0.00050   | mg   | 0.00065              | <0.00050             | <0.00050               | <0.00050               | ----  |
| Iron, total                 | 7439-89-6  | E447/VA    | 0.015     | mg   | 0.067                | 0.080                | 0.020                  | <0.015                 | ----  |
| Lead, total                 | 7439-92-1  | E447/VA    | 0.000025  | mg   | 0.000247             | 0.000345             | 0.000047               | <0.000025              | ----  |
| Lithium, total              | 7439-93-2  | E447/VA    | 0.0025    | mg   | <0.0025              | <0.0025              | <0.0025                | <0.0025                | ----  |
| Magnesium, total            | 7439-95-4  | E447/VA    | 0.0025    | mg   | 0.0565               | 0.0657               | 0.0237                 | <0.0025                | ----  |
| Manganese, total            | 7439-96-5  | E447/VA    | 0.00010   | mg   | 0.00714              | 0.00687              | 0.00272                | <0.00010               | ----  |
| Mercury, total              | 7439-97-6  | E516/VA    | 0.000025  | mg   | <0.000025            | <0.000025            | <0.000025              | <0.000025              | ----  |
| Molybdenum, total           | 7439-98-7  | E447/VA    | 0.000025  | mg   | <0.000025            | <0.000025            | <0.000025              | <0.000025              | ----  |
| Nickel, total               | 7440-02-0  | E447/VA    | 0.00025   | mg   | <0.00025             | 0.00034              | <0.00025               | <0.00025               | ----  |
| Phosphorus, total           | 7723-14-0  | E447/VA    | 0.025     | mg   | <0.025               | <0.025               | <0.025                 | <0.025                 | ----  |
| Potassium, total            | 7440-09-7  | E447/VA    | 0.025     | mg   | <0.025               | <0.025               | <0.025                 | <0.025                 | ----  |
| Selenium, total             | 7782-49-2  | E447/VA    | 0.00050   | mg   | <0.00050             | <0.00050             | <0.00050               | <0.00050               | ----  |
| Silicon, total              | 7440-21-3  | E447/VA    | 0.025     | mg   | 0.082                | 0.088                | <0.025                 | <0.025                 | ----  |
| Silver, total               | 7440-22-4  | E447/VA    | 0.0000050 | mg   | <0.0000050           | <0.0000050           | <0.0000050             | <0.0000050             | ----  |
| Sodium, total               | 7440-23-5  | E447/VA    | 0.025     | mg   | <0.025               | <0.025               | <0.025                 | <0.025                 | ----  |
| Strontium, total            | 7440-24-6  | E447/VA    | 0.000050  | mg   | 0.000477             | 0.000473             | 0.000200               | <0.000050              | ----  |
| Thallium, total             | 7440-28-0  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000050            | <0.000050              | <0.000050              | ----  |
| Tin, total                  | 7440-31-5  | E447/VA    | 0.000050  | mg   | <0.000050            | <0.000050            | <0.000050              | <0.000050              | ----  |
| Titanium, total             | 7440-32-6  | E447/VA    | 0.0050    | mg   | <0.0050              | <0.0050              | <0.0050                | <0.0050                | ----  |
| Uranium, total              | 7440-61-1  | E447/VA    | 0.0000050 | mg   | <0.0000050           | <0.0000050           | <0.0000050             | <0.0000050             | ----  |
| Vanadium, total             | 7440-62-2  | E447/VA    | 0.00050   | mg   | <0.00050             | <0.00050             | <0.00050               | <0.00050               | ----  |
| Zinc, total                 | 7440-66-6  | E447/VA    | 0.0015    | mg   | 0.0032               | 0.0029               | <0.0015                | <0.0015                | ----  |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.





## QUALITY CONTROL INTERPRETIVE REPORT

|   |  |
|---|--|
| <p><b>Work Order</b> : <b>BU2400000</b></p> <p><b>Client</b> : <b>New Gold Inc. (Rainy River)</b></p> <p><b>Contact</b> : Robyn Lloyd</p> <p><b>Address</b> : 24 Marr Rd<br/>Barwick ON Canada P0W 1A0</p> <p><b>Telephone</b> : 807 234 8200</p> <p><b>Project</b> : Air Quality</p> <p><b>PO</b> : 4500059107</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Client</p> <p><b>Site</b> :</p> <p><b>Quote number</b> : Air Quality Standing Offer</p> <p><b>No. of samples received</b> : 4</p> <p><b>No. of samples analysed</b> : 4</p> | <p><b>Page</b> : 1 of 10</p> <p><b>Laboratory</b> : ALS Environmental - Burlington</p> <p><b>Account Manager</b> : Claire Kocharakkal</p> <p><b>Address</b> : 1435 Norjohn Court, Unit 1<br/>Burlington, Ontario Canada L7L 0E6</p> <p><b>Telephone</b> : +1 905 331 3111</p> <p><b>Date Samples Received</b> : 04-Jan-2024 11:40</p> <p><b>Issue Date</b> : 25-Jan-2024 18:10</p> |
|---|--|

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

**Key**

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

### Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### Summary of Outliers

#### Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

#### Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North               | EF001A | 31-Dec-2023   | ----                     | ----          | ----   |      | 16-Jan-2024   | ----          | 17 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest           | EF001A | 31-Dec-2023   | ----                     | ----          | ----   |      | 16-Jan-2024   | ----          | 17 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South               | EF001A | 31-Dec-2023   | ----                     | ----          | ----   |      | 16-Jan-2024   | ----          | 17 days |      |
| <b>Field Tests : Dustfall Canister Area (cm2)</b>                    |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | EF001A | 31-Dec-2023   | ----                     | ----          | ----   |      | 16-Jan-2024   | ----          | 17 days |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North               | EF001B | 31-Dec-2023   | ----                     | ----          | ----   |      | 04-Jan-2024   | ----          | 5 days  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest           | EF001B | 31-Dec-2023   | ----                     | ----          | ----   |      | 04-Jan-2024   | ----          | 5 days  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South               | EF001B | 31-Dec-2023   | ----                     | ----          | ----   |      | 04-Jan-2024   | ----          | 5 days  |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |      |
| <b>Field Tests : Dustfall Canister Sampling Days</b>                 |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank   | EF001B | 31-Dec-2023   | ----                     | ----          | ----   |      | 04-Jan-2024   | ----          | 5 days  |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-North        | E885   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Northwest    | E885   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-South        | E885   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Fixed Insoluble Dustfall by Gravimetry (mg)</b>    |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank   | E885   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-North        | E884   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Northwest    | E884   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-South        | E884   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Fixed Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |        |      |               |               |         |      |
| <b>HDPE dustfall canister (isopropanol)</b><br>Dustfall-Trip Blank   | E884   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----   |      | 15-Jan-2024   | ----          | 16 days |      |



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North               | E882   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest           | E882   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South               | E882   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Total Insoluble Dustfalls by Gravimetry (mg)</b>   |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E882   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North               | E881   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest           | E881   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South               | E881   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Particulates : Total Soluble Dustfalls by Gravimetry (mg)</b>     |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E881   | 31-Dec-2023   | 15-Jan-2024              | ----          | ----    |      | 15-Jan-2024   | ----          | 16 days |      |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North               | E516   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✔    | 10-Jan-2024   | 180 days      | 0 days  | ✔    |



Matrix: Air Evaluation: \* = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |  |
|--|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|--|
|  |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |  |
|  |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest           | E516   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✓    | 10-Jan-2024   | 180 days      | 0 days  | ✓    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South               | E516   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✓    | 10-Jan-2024   | 180 days      | 0 days  | ✓    |  |
| <b>Total Metals : Total Mercury by CVAAS (Dustfall, mg)</b>          |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E516   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✓    | 10-Jan-2024   | 180 days      | 0 days  | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-North               | E447   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✓    | 17-Jan-2024   | 180 days      | 17 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Northwest           | E447   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✓    | 17-Jan-2024   | 180 days      | 17 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-South               | E447   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✓    | 17-Jan-2024   | 180 days      | 17 days | ✓    |  |
| <b>Total Metals : Total Metals by CRC ICPMS (Dustfall, mg)</b>       |        |               |                          |               |         |      |               |               |         |      |  |
| HDPE dustfall canister (isopropanol)<br>Dustfall-Trip Blank          | E447   | 31-Dec-2023   | 10-Jan-2024              | 180 days      | 10 days | ✓    | 17-Jan-2024   | 180 days      | 17 days | ✓    |  |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Analytical Methods</b>                    |        |          |       |         |               |          |            |
| <b>Laboratory Duplicates (DUP)</b>           |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1298115  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1298112  | 1     | 12      | 8.3           | 5.0      | ✔          |
| <b>Laboratory Control Samples (LCS)</b>      |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1302828  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1302829  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1302830  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1298115  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1298112  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1302831  | 1     | 4       | 25.0          | 5.0      | ✔          |
| <b>Method Blanks (MB)</b>                    |        |          |       |         |               |          |            |
| Fixed Insoluble Dustfall by Gravimetry (mg)  | E885   | 1302828  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Fixed Soluble Dustfalls by Gravimetry (mg)   | E884   | 1302829  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Insoluble Dustfalls by Gravimetry (mg) | E882   | 1302830  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1298115  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Metals by CRC ICPMS (Dustfall, mg)     | E447   | 1298112  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Total Soluble Dustfalls by Gravimetry (mg)   | E881   | 1302831  | 1     | 4       | 25.0          | 5.0      | ✔          |
| <b>Matrix Spikes (MS)</b>                    |        |          |       |         |               |          |            |
| Total Mercury by CVAAS (Dustfall, mg)        | E516   | 1298115  | 1     | 12      | 8.3           | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods   | Method / Lab                              | Matrix | Method Reference            | Method Descriptions   |
|--|---|--------|-----------------------------|---|
| Total Metals by CRC ICPMS (Dustfall, mg)                   | E447<br>ALS Environmental - Vancouver     | Air    | EPA 6020B (mod)             | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by Collision/Reaction Cell ICPMS.   |
| Total Mercury by CVAAS (Dustfall, mg)                      | E516<br>ALS Environmental - Vancouver     | Air    | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Total Soluble Dustfalls by Gravimetry (mg)                 | E881<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically.  |
| Total Insoluble Dustfalls by Gravimetry (mg)               | E882<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically.  |
| Fixed Soluble Dustfalls by Gravimetry (mg)                 | E884<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104°C to dryness, followed by an ignition at 550°C. The residue, Fixed Soluble Dustfall, is measured gravimetrically.  |
| Fixed Insoluble Dustfall by Gravimetry (mg)                | E885<br>ALS Environmental - Vancouver     | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104°C to dryness followed by an ignition at 550°C. The residue, Fixed Insoluble Dustfall, is measured gravimetrically.   |
| Total Metals by ICPMS (Dustfall, mg/dm <sup>2</sup> .day)  | EC447<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day by field information.  |
| Total Mercury by CVAAS (Dustfall, mg/dm <sup>2</sup> .day) | EC516<br>ALS Environmental - Vancouver    | Air    | unit conversion             | Convert mg/sample to mg/dm <sup>2</sup> .day based on field information.  |
| Total Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC880T.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Total Dustfall is sum of Total Soluble Dustfall and Total Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |





| Analytical Methods  | Method / Lab                               | Matrix | Method Reference            | Method Descriptions   |
|---|--|--------|-----------------------------|---|
| Total Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC881.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness. The residue, Total Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                   |
| Total Insoluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)     | EC882.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness. The residue, Total Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.                                 |
| Fixed Dustfalls by Calculation (mg/dm <sup>2</sup> .day)              | EC883F.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Fixed Dustfall is sum of Fixed Soluble Dustfall and Fixed Insoluble Dustfall. The result is then calculated based on canister area and sampling time.   |
| Volatile Dustfalls by Calculation (mg/dm <sup>2</sup> .day)           | EC883V2.A<br>ALS Environmental - Vancouver | Air    | BC LAB MANUAL - PARTICULATE | Volatile Dustfall is sum of Volatile Soluble Dustfall and Volatile Insoluble Dustfall. The result is then calculated based on canister area and sampling time.  |
| Fixed Soluble Dustfalls by Gravimetry (mg/dm <sup>2</sup> .day)       | EC884.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtrate is evaporated at 104° to dryness, followed by an ignition at 550°. The residue, Fixed Soluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time.  |
| Volatile Soluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day)   | EC884V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Soluble Dustfalls = Total Soluble Dustfalls by Gravimetry minus Fixed Soluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Fixed Insoluble Dustfall by Gravimetry (mg/dm <sup>2</sup> .day)      | EC885.A<br>ALS Environmental - Vancouver   | Air    | BC LAB MANUAL - PARTICULATE | A sample is filtered through a 0.45 um membrane filter and its filtered is evaporated at 104° to dryness followed by an ignition at 550°. The residue, Fixed Insoluble Dustfall, is measured gravimetrically. The result is then calculated based on canister area and sampling time. |
| Volatile Insoluble Dustfalls by Calculation (mg/dm <sup>2</sup> .day) | EC885V.A<br>ALS Environmental - Vancouver  | Air    | BC LAB MANUAL - PARTICULATE | Volatile Insoluble Dustfalls = Total Insoluble Dustfalls by Gravimetry minus Fixed Insoluble Dustfalls by Gravimetry. The result is then calculated based on canister area and sampling time.   |
| Dustfall Canister Area (cm <sup>2</sup> )                             | EF001A<br>ALS Environmental - Vancouver    | Air    | Field data                  | Measurement of sampling area (cm <sup>2</sup> ) of the opening of the dustfall canister is recorded.  |
| Dustfall Canister Sampling Days                                       | EF001B<br>ALS Environmental - Burlington   | Air    | N/A                         | Field dustfall information recorded on ALS report may affect the validity of results.   |

| Preparation Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---------------------|--------------|--------|------------------|---------------------|
|---------------------|--------------|--------|------------------|---------------------|



| <i>Preparation Methods</i>                    | <i>Method / Lab</i>                    | <i>Matrix</i> | <i>Method Reference</i>     | <i>Method Descriptions</i>  |
|---|--|---------------|-----------------------------|---|
| Total Metals Dustfall Screening and Digestion | EP447<br>ALS Environmental - Vancouver | Air           | EPA 6020A                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).  |
| Mercury Dustfall Preparation                  | EP516<br>ALS Environmental - Vancouver | Air           | EPA 245.7                   | This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry or atomic absorption spectrophotometry (EPA Method 245.7). |
| Solids Dustfall Preparation                   | EP880<br>ALS Environmental - Vancouver | Air           | BC LAB MANUAL - PARTICULATE | Dustfall sample preparation.  |

## QUALITY CONTROL REPORT

|                                |   |                                |  |
|--------------------------------|---|--------------------------------|--|
| <b>Work Order</b>              | <b>: BU2400000</b>                        | <b>Page</b>                    | <b>: 1 of 8</b>  |
| <b>Client</b>                  | : New Gold Inc. (Rainy River)             | <b>Laboratory</b>              | : ALS Environmental - Burlington                                   |
| <b>Contact</b>                 | : Robyn Lloyd                             | <b>Account Manager</b>         | : Claire Kocharakkal   |
| <b>Address</b>                 | : 24 Marr Rd<br>Barwick ON Canada P0W 1A0 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| <b>Telephone</b>               | :   | <b>Telephone</b>               | : +1 905 331 3111  |
| <b>Project</b>                 | : Air Quality                             | <b>Date Samples Received</b>   | : 04-Jan-2024 11:40  |
| <b>PO</b>                      | : 4500059107                              | <b>Date Analysis Commenced</b> | : 04-Jan-2024  |
| <b>C-O-C number</b>            | : ----                                    | <b>Issue Date</b>              | : 25-Jan-2024 18:09  |
| <b>Sampler</b>                 | : Client            807 234 8200          |                                |  |
| <b>Site</b>                    | :   |                                |  |
| <b>Quote number</b>            | : Air Quality Standing Offer              |                                |  |
| <b>No. of samples received</b> | : 4                                       |                                |  |
| <b>No. of samples analysed</b> | : 4                                       |                                |  |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>             | <i>Laboratory Department</i>                    |
|--------------------|-----------------------------|---|
| Aaron Burton       | Login                       | Burlington Administration, Burlington, Ontario  |
| Alex Thornton      | Analyst                     | Vancouver Metals, Burnaby, British Columbia     |
| Kim Jensen         | Department Manager - Metals | Vancouver Inorganics, Burnaby, British Columbia |
| Kim Jensen         | Department Manager - Metals | Vancouver Metals, Burnaby, British Columbia     |

Page : 2 of 8  
Work Order : BU2400000  
Client : New Gold Inc. (Rainy River)  
Project : Air Quality



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

### Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

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## Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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### Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Air

|                                       |                  |                   |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---------------------------------------|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                  | Client sample ID | Analyte           | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1298112)</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2400000-001                         | Dustfall-North   | Aluminum, total   | 7429-90-5  | E447   | 0.0030                            | mg   | 0.0586          | 0.0768           | 26.8%                | 40%              | ----      |
|                                       |                  | Antimony, total   | 7440-36-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Arsenic, total    | 7440-38-2  | E447   | 0.000050                          | mg   | 0.000106        | 0.000111         | 0.000005             | Diff <2x LOR     | ----      |
|                                       |                  | Barium, total     | 7440-39-3  | E447   | 0.000050                          | mg   | 0.000423        | 0.000489         | 14.5%                | 40%              | ----      |
|                                       |                  | Beryllium, total  | 7440-41-7  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Bismuth, total    | 7440-69-9  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Boron, total      | 7440-42-8  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cadmium, total    | 7440-43-9  | E447   | 0.000020                          | mg   | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Calcium, total    | 7440-70-2  | E447   | 0.010                             | mg   | 0.263           | 0.249            | 5.47%                | 30%              | ----      |
|                                       |                  | Chromium, total   | 7440-47-3  | E447   | 0.00025                           | mg   | <0.00025        | <0.00025         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Cobalt, total     | 7440-48-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Copper, total     | 7440-50-8  | E447   | 0.00050                           | mg   | 0.00065         | <0.00050         | 0.00015              | Diff <2x LOR     | ----      |
|                                       |                  | Iron, total       | 7439-89-6  | E447   | 0.015                             | mg   | 0.067           | 0.088            | 0.020                | Diff <2x LOR     | ----      |
|                                       |                  | Lead, total       | 7439-92-1  | E447   | 0.000025                          | mg   | 0.000247        | 0.000290         | 16.1%                | 40%              | ----      |
|                                       |                  | Lithium, total    | 7439-93-2  | E447   | 0.0025                            | mg   | <0.0025         | <0.0025          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Magnesium, total  | 7439-95-4  | E447   | 0.0025                            | mg   | 0.0565          | 0.0648           | 13.6%                | 30%              | ----      |
|                                       |                  | Manganese, total  | 7439-96-5  | E447   | 0.00010                           | mg   | 0.00714         | 0.00730          | 2.27%                | 30%              | ----      |
|                                       |                  | Molybdenum, total | 7439-98-7  | E447   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Nickel, total     | 7440-02-0  | E447   | 0.00025                           | mg   | <0.00025        | 0.00030          | 0.00005              | Diff <2x LOR     | ----      |
|                                       |                  | Phosphorus, total | 7723-14-0  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Potassium, total  | 7440-09-7  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Selenium, total   | 7782-49-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Silicon, total    | 7440-21-3  | E447   | 0.025                             | mg   | 0.082           | 0.104            | 0.022                | Diff <2x LOR     | ----      |
|                                       |                  | Silver, total     | 7440-22-4  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Sodium, total     | 7440-23-5  | E447   | 0.025                             | mg   | <0.025          | <0.025           | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Strontium, total  | 7440-24-6  | E447   | 0.000050                          | mg   | 0.000477        | 0.000504         | 5.45%                | 40%              | ----      |
|                                       |                  | Thallium, total   | 7440-28-0  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Tin, total        | 7440-31-5  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Titanium, total   | 7440-32-6  | E447   | 0.0050                            | mg   | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|                                       |                  | Uranium, total    | 7440-61-1  | E447   | 0.000050                          | mg   | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |

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 Work Order : BU2400000  
 Client : New Gold Inc. (Rainy River)  
 Project : Air Quality



| Sub-Matrix: Air                                   |                  |                 |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|---|------------------|-----------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                              | Client sample ID | Analyte         | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| <b>Total Metals (QC Lot: 1298112) - continued</b> |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2400000-001                                     | Dustfall-North   | Vanadium, total | 7440-62-2  | E447   | 0.00050                           | mg   | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Zinc, total     | 7440-66-6  | E447   | 0.0015                            | mg   | 0.0032          | 0.0039           | 0.0007               | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1298115)</b>             |                  |                 |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2400000-001                                     | Dustfall-North   | Mercury, total  | 7439-97-6  | E516   | 0.000025                          | mg   | <0.000025       | <0.000025        | 0                    | Diff <2x LOR     | ----      |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                              | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--------------------------------------|------------|--------|----------|------|------------|-----------|
| <b>Particulates (QCLot: 1302828)</b> |            |        |          |      |            |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1302829)</b> |            |        |          |      |            |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1302830)</b> |            |        |          |      |            |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | <1.9       | ---       |
| <b>Particulates (QCLot: 1302831)</b> |            |        |          |      |            |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | <1.9       | ---       |
| <b>Total Metals (QCLot: 1298112)</b> |            |        |          |      |            |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | <0.0030    | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | <0.0050    | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | <0.000020  | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | <0.010     | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | <0.000050  | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | <0.015     | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | <0.0025    | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | <0.00010   | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | <0.000025  | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | <0.00025   | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | <0.025     | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | <0.025     | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | <0.00050   | ---       |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | <0.025     | ---       |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | <0.0000050 | ---       |



Sub-Matrix: Air

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1298112) - continued</b> |            |        |          |      |            |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | <0.025     | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | <0.000050  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | <0.0050    | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | <0.0000050 | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | <0.00050   | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | <0.0015    | ----      |
| <b>Total Metals (QCLot: 1298115)</b>             |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | <0.000025  | ----      |





### Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                      |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--------------------------------------|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|                                      |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                              | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Particulates (QCLot: 1302828)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed insoluble            | ---        | E885   | 1.9      | mg   | 30 mg                                  | 107          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1302829)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, fixed soluble              | ---        | E884   | 1.9      | mg   | 119 mg                                 | 110          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1302830)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total insoluble            | ---        | E882   | 1.9      | mg   | 30 mg                                  | 107          | 85.0                | 115  | ---       |
| <b>Particulates (QCLot: 1302831)</b> |            |        |          |      |  |              |                     |      |           |
| Dustfall, total soluble              | ---        | E881   | 1.9      | mg   | 200 mg                                 | 100          | 85.0                | 115  | ---       |
| <b>Total Metals (QCLot: 1298112)</b> |            |        |          |      |  |              |                     |      |           |
| Aluminum, total                      | 7429-90-5  | E447   | 0.003    | mg   | 1 mg                                   | 104          | 80.0                | 120  | ---       |
| Antimony, total                      | 7440-36-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 102          | 80.0                | 120  | ---       |
| Arsenic, total                       | 7440-38-2  | E447   | 0.00005  | mg   | 0.5 mg                                 | 109          | 80.0                | 120  | ---       |
| Barium, total                        | 7440-39-3  | E447   | 0.00005  | mg   | 0.125 mg                               | 101          | 80.0                | 120  | ---       |
| Beryllium, total                     | 7440-41-7  | E447   | 0.00025  | mg   | 0.05 mg                                | 103          | 80.0                | 120  | ---       |
| Bismuth, total                       | 7440-69-9  | E447   | 0.00025  | mg   | 0.5 mg                                 | 104          | 80.0                | 120  | ---       |
| Boron, total                         | 7440-42-8  | E447   | 0.005    | mg   | 0.5 mg                                 | 105          | 80.0                | 120  | ---       |
| Cadmium, total                       | 7440-43-9  | E447   | 0.00002  | mg   | 0.05 mg                                | 104          | 80.0                | 120  | ---       |
| Calcium, total                       | 7440-70-2  | E447   | 0.01     | mg   | 25 mg                                  | 104          | 80.0                | 120  | ---       |
| Chromium, total                      | 7440-47-3  | E447   | 0.00025  | mg   | 0.125 mg                               | 103          | 80.0                | 120  | ---       |
| Cobalt, total                        | 7440-48-4  | E447   | 0.00005  | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ---       |
| Copper, total                        | 7440-50-8  | E447   | 0.0005   | mg   | 0.125 mg                               | 100          | 80.0                | 120  | ---       |
| Iron, total                          | 7439-89-6  | E447   | 0.015    | mg   | 0.5 mg                                 | 104          | 80.0                | 120  | ---       |
| Lead, total                          | 7439-92-1  | E447   | 0.000025 | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ---       |
| Lithium, total                       | 7439-93-2  | E447   | 0.0025   | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ---       |
| Magnesium, total                     | 7439-95-4  | E447   | 0.0025   | mg   | 25 mg                                  | 104          | 80.0                | 120  | ---       |
| Manganese, total                     | 7439-96-5  | E447   | 0.0001   | mg   | 0.125 mg                               | 102          | 80.0                | 120  | ---       |
| Molybdenum, total                    | 7439-98-7  | E447   | 0.000025 | mg   | 0.125 mg                               | 104          | 80.0                | 120  | ---       |
| Nickel, total                        | 7440-02-0  | E447   | 0.00025  | mg   | 0.25 mg                                | 103          | 80.0                | 120  | ---       |
| Phosphorus, total                    | 7723-14-0  | E447   | 0.025    | mg   | 5 mg                                   | 107          | 80.0                | 120  | ---       |
| Potassium, total                     | 7440-09-7  | E447   | 0.025    | mg   | 25 mg                                  | 104          | 80.0                | 120  | ---       |
| Selenium, total                      | 7782-49-2  | E447   | 0.0005   | mg   | 0.5 mg                                 | 103          | 80.0                | 120  | ---       |
| Silicon, total                       | 7440-21-3  | E447   | 0.025    | mg   | 5 mg                                   | 107          | 80.0                | 120  | ---       |
| Silver, total                        | 7440-22-4  | E447   | 0.000005 | mg   | 0.05 mg                                | 89.2         | 80.0                | 120  | ---       |



| Sub-Matrix: Air                                  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
| Analyte  | CAS Number | Method | LOR      | Unit | Concentration                          | LCS          | Low                 | High | Qualifier |
| <b>Total Metals (QCLot: 1298112) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Sodium, total                                    | 7440-23-5  | E447   | 0.025    | mg   | 25 mg                                  | 104          | 80.0                | 120  | ----      |
| Strontium, total                                 | 7440-24-6  | E447   | 0.00005  | mg   | 0.125 mg                               | 99.2         | 80.0                | 120  | ----      |
| Thallium, total                                  | 7440-28-0  | E447   | 0.00005  | mg   | 0.5 mg                                 | 109          | 80.0                | 120  | ----      |
| Tin, total                                       | 7440-31-5  | E447   | 0.00005  | mg   | 0.25 mg                                | 99.8         | 80.0                | 120  | ----      |
| Titanium, total                                  | 7440-32-6  | E447   | 0.005    | mg   | 0.125 mg                               | 98.1         | 80.0                | 120  | ----      |
| Uranium, total                                   | 7440-61-1  | E447   | 0.000005 | mg   | 0.0025 mg                              | 102          | 80.0                | 120  | ----      |
| Vanadium, total                                  | 7440-62-2  | E447   | 0.0005   | mg   | 0.25 mg                                | 104          | 80.0                | 120  | ----      |
| Zinc, total                                      | 7440-66-6  | E447   | 0.0015   | mg   | 0.25 mg                                | 101          | 80.0                | 120  | ----      |
| <b>Total Metals (QCLot: 1298115)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                   | 7439-97-6  | E516   | 0.000025 | mg   | 0.00062 mg                             | 99.8         | 70.0                | 130  | ----      |

### Matrix Spike (MS) Report

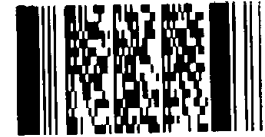
A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Sub-Matrix: Air                      |                  |                |            |        | Matrix Spike (MS) Report |              |                     |      |           |           |
|--------------------------------------|------------------|----------------|------------|--------|--------------------------|--------------|---------------------|------|-----------|-----------|
|                                      |                  |                |            |        | Spike                    | Recovery (%) | Recovery Limits (%) |      | Qualifier |           |
| Laboratory sample ID                 | Client sample ID | Analyte        | CAS Number | Method | Concentration            | Target       | MS                  | Low  | High      | Qualifier |
| <b>Total Metals (QCLot: 1298115)</b> |                  |                |            |        |                          |              |                     |      |           |           |
| BU2400000-002                        | Dustfall-South   | Mercury, total | 7439-97-6  | E516   | 0.000361 mg              | 0.0005 mg    | 72.2                | 70.0 | 130       | ----      |



Chain of Custody / Analytical Request Form  
 1435 Norjohn Court, Unit 1, Burlington, Ontario, Canada, L7L 0E6  
 Tel +1-905-331-3111 Fax +1-905-331-4567 www.alsglobal.com

Environmental Division  
 Burlington  
 Work Order Reference  
**BU2400000**



Telephone : -1 905 331 3111

| Report To   |   | Report Format / Distribution     |                 |               |       | Service Requested  |                         |                         |                      |   |
|---|---|----------------------------------|-----------------|---------------|-------|--|-------------------------|-------------------------|----------------------|---|
| Company: New Gold Inc.  |   |                                  |                 |               |       | Regular Service  |                         |                         |                      |   |
| Contact: Robyn Lloyd  |   |                                  |                 |               |       | Rush Service (with prior consultation) - surcharge applies |                         |                         |                      |   |
| Address: 1361 Roen Road, Chapple, ON POW 1A0  |   | Email 1: robyn.lloyd@newgold.com |                 |               |       | Other - Please contact ALS                                 |                         |                         |                      |   |
| Phone: 807-234-8200 ext. 8029 Fax:  |   | Email 2:                         |                 |               |       | Analysis Request   |                         |                         |                      |   |
| Invoice To: Same as Report  |   | Client / Project Information     |                 |               |       |  |                         |                         |                      |   |
| Company:  |   | Job #: Air Quality               |                 |               |       |  |                         |                         |                      |   |
| Contact:  |   | Location:                        |                 |               |       |  |                         |                         |                      |   |
| Address:  |   | PO: 4500059107                   |                 |               |       |  |                         |                         |                      |   |
| Phone: Fax:   |   | Sampled by:                      |                 |               |       |  |                         |                         |                      |   |
| Lab Work Order #  |   | ALS Contact:                     |                 |               |       |  |                         |                         |                      |   |
| Sample #  | Sample Identification<br>(This description will appear on the report) | Date<br>(dd-mm-yy)               | Time<br>(hh:mm) | Sample Type   | TSP   | Pm 2.5   | Dustfall incl. volatile | Hazardous? Provide Data | Highly Contaminated? | Number of Containers                          |
|   | NORTH-TSP-518   | 2-Dec-2023                       | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | SOUTH-TSP-518   | 2-Dec-2023                       | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTHWEST-TSP-518   | 2-Dec-2023                       | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTH-TSP-519   | 8-Dec-2023                       | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | SOUTH-TSP-519   | 8-Dec-2023                       | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTHWEST-TSP-519   | 8-Dec-2023                       | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTH-TSP-520   | 14-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | SOUTH-TSP-520   | 14-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTHWEST-TSP-520   | 14-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTH-TSP-521   | 20-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | SOUTH-TSP-521   | 20-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTHWEST-TSP-521   | 20-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTH-TSP-522   | 26-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | SOUTH-TSP-522   | 26-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTHWEST-TSP-522   | 26-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | TRIP BLANK - November TSP   | 31-Dec-2023                      | 12:00           | Air           | X     |  |                         |                         |                      |   |
|   | NORTH-PM2.5-518   | 2-Dec-2023                       | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | SOUTH-PM2.5-518   | 2-Dec-2023                       | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-518   | 2-Dec-2023                       | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTH-PM2.5-519   | 8-Dec-2023                       | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | SOUTH-PM2.5-519   | 8-Dec-2023                       | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-519   | 8-Dec-2023                       | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTH-PM2.5-520   | 14-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | SOUTH-PM2.5-520   | 14-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-520   | 14-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTH-PM2.5-521   | 20-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | SOUTH-PM2.5-521   | 20-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-521   | 20-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTH-PM2.5-522   | 26-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | SOUTH-PM2.5-522   | 26-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | NORTHWEST-PM2.5-522   | 26-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | TRIP BLANK - November- PM2.5  | 31-Dec-2023                      | 12:00           | Air           | X     | X  |                         |                         |                      |   |
|   | Dustfall- Northwest   | 31-Dec-2023                      | 12:00           | Air           |       |  | X                       |                         |                      |   |
|   | Dustfall - Trip Blank   | 31-Dec-2023                      | 12:00           | Air           |       |  | X                       |                         |                      |   |
|   | Dustfall - North  | 31-Dec-2023                      | 12:00           | Air           |       |  | X                       |                         |                      |   |
|   | Dustfall - South  | 31-Dec-2023                      | 12:00           | Air           |       |  | X                       |                         |                      |   |
| Special Instructions / Regulations / Hazardous Details  |   |                                  |                 |               |       |  |                         |                         |                      |   |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS |   |                                  |                 |               |       |  |                         |                         |                      |   |
| Released by:  | Date (dd-mm-yy)   | Time (hh:mm)                     | Received by:    | Date:         | Time: | Temperature:   | Verified by:            | Date:                   | Time:                | Observations:<br>Yes / No ?<br>If Yes add SIF |
|   |   |                                  | AARAW<br>BURTON | 4-JAN<br>2024 | 11:40 | 17.0<br>°C   |                         |                         |                      |   |



Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/09/29-2023/10/31  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/11/24**  
 Report #: R3431629  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C392955**

**Received: 2023/11/14, 10:15**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/11/21 | 2023/11/23 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/11/21 | 2023/11/22 | PTC SOP-00149     | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.  
 Results relate only to the items tested.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.



**BUREAU  
VERITAS**

Bureau Veritas Job #: C392955  
Report Date: 2023/11/24

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | CEL284              | CEL285              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/09/29<br>00:00 | 2023/09/29<br>00:00 |     |          |
|                                  | UNITS | PRP SOUTH           | PRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 1.3                 | 0.3                 | 0.1 | B206731  |
| Calculated SO2                   | ppb   | 0.2                 | <0.1                | 0.1 | B206581  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C392955  
Report Date: 2023/11/24

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C392955  
Report Date: 2023/11/24

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC<br>Batch | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|----------------|---------------|-------|----------|-------|-----------|
| B206581        | OZ   | Spiked Blank | Calculated SO2 | 2023/11/22    |       | 100      | %     | 90 - 110  |
| B206581        | OZ   | Method Blank | Calculated SO2 | 2023/11/22    | <0.1  |          | ppb   |           |
| B206731        | S1T  | Spiked Blank | Calculated NO2 |               |       | 98       | %     | 90 - 110  |
| B206731        | S1T  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C392955  
Report Date: 2023/11/24

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "S. Gloux", written over a horizontal line.

Steven Gloux, Senior Analyst

---

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Branko Banjac, General Manager responsible for Alberta Petroleum laboratory operations.





Your P.O. #: 4500022601  
 Your Project #: TC111504.2015.6  
 Site#: 2023/10/31-2023/12/01  
 Site Location: NEW GOLD - EMO, ON

**Attention: Claire Kocharakkal**

ALS Environmental  
 Burlington ON  
 1435 Norjohn Court  
 Unit 1  
 Burlington, ON  
 CANADA L7L 0E6

**Report Date: 2023/12/21**  
 Report #: R3443902  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C3A1192**

**Received: 2023/12/11, 08:00**

Sample Matrix: Air  
 # Samples Received: 2

| Analyses             | Quantity | Date       | Date       | Laboratory Method | Analytical Method  |
|----------------------|----------|------------|------------|-------------------|--------------------|
|                      |          | Extracted  | Analyzed   |                   |                    |
| NO2 Passive Analysis | 2        | 2023/12/14 | 2023/12/19 | PTC SOP-00148     | Passive NO2 in ATM |
| SO2 Passive Analysis | 2        | 2023/12/14 | 2023/12/19 | PTC SOP-00149     | Passive SO2 in ATM |

This report shall not be reproduced except in full, without the written approval of the laboratory.  
 Results relate only to the items tested.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to:  
 Customer Service Passives,  
 Email: PassiveAir@bureauveritas.com  
 Phone# (780) 378-8500

=====

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BUREAU  
VERITAS

Bureau Veritas Job #: C3A1192  
Report Date: 2023/12/21

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### RESULTS OF CHEMICAL ANALYSES OF AIR

| Bureau Veritas ID                |       | CGL469              | CGL470              |     |          |
|----------------------------------|-------|---------------------|---------------------|-----|----------|
| Sampling Date                    |       | 2023/10/31<br>00:00 | 2023/10/31<br>00:00 |     |          |
|                                  | UNITS | PRP SOUTH           | PRP NORTH           | RDL | QC Batch |
| <b>Passive Monitoring</b>        |       |                     |                     |     |          |
| Calculated NO2                   | ppb   | 0.7                 | 1.8                 | 0.1 | B233090  |
| Calculated SO2                   | ppb   | <0.1                | <0.1                | 0.1 | B233583  |
| RDL = Reportable Detection Limit |       |                     |                     |     |          |



**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C3A1192  
Report Date: 2023/12/21

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### GENERAL COMMENTS

Results relate only to the items tested.



BUREAU  
VERITAS

Bureau Veritas Job #: C3A1192  
Report Date: 2023/12/21

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### QUALITY ASSURANCE REPORT

| QA/QC   |      |              |                |               |       |          |       |           |  |
|---------|------|--------------|----------------|---------------|-------|----------|-------|-----------|--|
| Batch   | Init | QC Type      | Parameter      | Date Analyzed | Value | Recovery | UNITS | QC Limits |  |
| B233090 | S1T  | Spiked Blank | Calculated NO2 |               |       | 100      | %     | 90 - 110  |  |
| B233090 | S1T  | Method Blank | Calculated NO2 |               | <0.1  |          | ppb   |           |  |
| B233583 | OZ   | Spiked Blank | Calculated SO2 |               |       | 100      | %     | 90 - 110  |  |
| B233583 | OZ   | Method Blank | Calculated SO2 |               | <0.1  |          | ppb   |           |  |

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU  
VERITAS

Bureau Veritas Job #: C3A1192  
Report Date: 2023/12/21

ALS Environmental  
Client Project #: TC111504.2015.6  
Site Location: NEW GOLD - EMO, ON  
Your P.O. #: 4500022601  
Sampler Initials: N/A

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'S. Gloux', written over a horizontal line.

Steven Gloux, Senior Analyst

---

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## Confirmation of Sample Receipt

Bureau Veritas Job Number: C401691

Job Received: 2024/01/09

Final Report Due: 2024/01/19

Disposal Date: 2024/02/13

### Invoice Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com

### Report Information

Attn: Claire Kocharakkal  
ALS Environmental  
1435 Norjohn Court  
Unit 1  
Burlington, ON, L7L 0E6  
Email to:  
claire.kocharakkal@alsglobal.com  
robyn.lloyd@newgold.com

### Project Information

**Quote #:** C40080  
**PO/AFE#:** 4500022601  
**Project #:** TC111504.2015.6  
**Site Location:** NEW GOLD - EMO, ON  
**Site #:** 2023/10/31-2023/12/01  
**Sampled By:** N/A



## Confirmation of Sample Receipt

Bureau Veritas Job Number: C401691

Job Received: 2024/01/09

Final Report Due: 2024/01/19

Disposal Date: 2024/02/13

### Parameter Summary

| Package/Test         | Parameter      | RDL * | Unit | Samples |
|----------------------|----------------|-------|------|---------|
| NO2 Passive Analysis | Calculated NO2 | 0.1   | ppb  | All     |
| SO2 Passive Analysis | Calculated SO2 | 0.1   | ppb  | All     |

*\*RDLs are subject to change based on interferences present at the time of analysis.*



6744 - 50 St. Edmonton AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Bureau Veritas Job Number:

### PASSIVE AIR CHAIN OF CUSTODY

Page 1 of 1

**Invoice To**  
 Company Name ALS Environmental  
 Contact Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/Postal Code \_\_\_\_\_  
 Phone/Fax# \_\_\_\_\_

**Report To**  
 Name & Email Address  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Service Requested**  
 RUSH  
 (Please contact for TAT)  
 REGULAR

**Company Name**  
**ALS**  
 Project Name/LSD  
**New Gold**  
**TC111504.2015.6**

### ANALYTICAL INFORMATION

| Sample ID or Location (LSD) | Sample Start Date (DD/MM/YY) | Time (24 hrs) (HH:MM) | Sample End Date (DD/MM/YY) | Time (HH:MM) | Volume (m3) PM/TSP Only | Analysis Required |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|-----------------------------|------------------------------|-----------------------|----------------------------|--------------|-------------------------|-------------------|-----|-----|----|-----|-------|------|-----|----------|--|--|--|--|--|--|
|                             |                              |                       |                            |              |                         | SO2               | H2S | NO2 | O3 | NH3 | PM2.5 | PM10 | TSP | Dustfall |  |  |  |  |  |  |
| PRP South                   | 2023/12/31                   | 00:00                 | 2023/12/31                 | 00:00        |                         | X                 |     | X   |    |     |       |      |     |          |  |  |  |  |  |  |
| PRP North                   | 2023/12/31                   | 00:00                 | 2023/12/31                 | 00:00        |                         | X                 |     | X   |    |     |       |      |     |          |  |  |  |  |  |  |
| Blank                       |                              |                       |                            |              |                         | X                 |     | X   |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |
|                             |                              |                       |                            |              |                         |                   |     |     |    |     |       |      |     |          |  |  |  |  |  |  |

Notes/Comments: Client 13251 / Scenario 12539

Sampled By Caroline Cullen Phone/Email \_\_\_\_\_ Received By \_\_\_\_\_ Date/Time 18 Project # \_\_\_\_\_  
 Date Shipped Jan 20 2024 Signature [Signature] 24-01-09 PO# \_\_\_\_\_  
3502  
3107 00830

PTC FCD-00457/4

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# **APPENDIX D: HI-VOL & PQ200 SAMPLER CALIBRATION SHEETS**

**Audited Instrument:**

Station: Northwest Make/Model: PQ200 S/N: 1752

Date: 2023 09 29 Time: 1512 deltaCal<sup>®</sup>/S/N: 172457

Tech: Rc/HJ/SJ

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.67

deltaCal<sup>®</sup>: 16.73

% diff. =  $[(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 = 0.36$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 16.2

deltaCal<sup>®</sup>: 17.3

Allowed diff. = ±2°C; Pass X Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 725

deltaCal<sup>®</sup>: 726.5

Allowed diff. = ±10 mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 16.2

deltaCal<sup>®</sup>: 17.3

Allowed diff. = ± 2°C; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: South Make/Model: PQ200 S/N: 1751

Date: 2023-09-29 Time: 14:37 deltaCal® S/N: 172457

Tech:

**Leak Test**

Pass x Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.70

deltaCal®: 16.97

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 1.59$

Allowed diff. = 4%; Pass x Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 16.4

deltaCal®: 16.8

Allowed diff. = ±2°C; Pass x Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 723

deltaCal®: 720

Allowed diff. = ±10 mm; Pass x Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 16.4

deltaCal®: 16.7

Allowed diff. = ± 2°C; Pass x Fail \_\_\_\_\_

**Audited Instrument:**

Station: North Make/Model: PQ200 S/N: 79407

Date: 2023-09-29 Time: 10:15 deltaCal<sup>®</sup>/S/N: 172451

Tech: RL/HJ

**Leak Test**

Pass X Fail \_\_\_\_\_

**Flow Rate - Lpm**

Sampler: 16.7

deltaCal<sup>®</sup>: 16.52

% diff. =  $[(\text{deltaCal}^{\circ} - \text{sampler}) / \text{deltaCal}^{\circ}] \times 100 =$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: 16.5

deltaCal<sup>®</sup>: 17.2

Allowed diff. =  $\pm 2^{\circ}\text{C}$ ; Pass X Fail \_\_\_\_\_

**Barometric Pressure - mm of Hg**

Sampler: 724

deltaCal<sup>®</sup>: 275.5

Allowed diff. =  $\pm 10$  mm; Pass X Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 16.6

deltaCal<sup>®</sup>: 16.7

Allowed diff. =  $\pm 2^{\circ}\text{C}$ ; Pass X Fail \_\_\_\_\_

**Audited Instrument:**

Station: Northwest Make/Model: PQ200 S/N: SN1752

Date: 20231031 Time: 1200 deltaCal®S/N: 172457

Tech: HJ/EJ

**Leak Test**

Pass x Fail \_\_\_\_\_ Passed on 2023-10-28

**Flow Rate - Lpm**

Sampler: 16.72

deltaCal®: 16.63

$16.63 - 16.72 / 16.63 \times 100 =$

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$  0.5%

Allowed diff. = 4%; Pass  Fail \_\_\_\_\_

$Q_a = 16.69$   
 $Q_s = 17.76$

**Ambient Temp. - °C**

Sampler: +2.2

deltaCal®: -1.2

Allowed diff. = ±2°C; Pass  Fail \_\_\_\_\_

**Barometric Pressure - mm of Hg**

Sampler: 736

deltaCal®: 737.1

Allowed diff. = ±10 mm; Pass  Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 0.1

deltaCal®: -1.7

Allowed diff. = ± 2°C; Pass  Fail \_\_\_\_\_

**Audited Instrument:**

Station: South Make/Model: PQ200 S/N: 1751

Date: 20231031 Time: 11:21 deltaCal®S/N: 172457

Tech: HJ/SJ

**Leak Test**

Pass X Fail \_\_\_\_\_ Passed on 2023-10-28

**Flow Rate – Lpm**

Sampler: 16.72

deltaCal®: 16.52

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 16.52 - 16.72 / 16.52 \times 100 = 1.2\%$

Allowed diff. = 4%; Pass ✓ Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: -2.2

deltaCal®: -2.0

Allowed diff. = ±2°C; Pass ✓ Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 734

deltaCal®: 736.5

Allowed diff. = ±10 mm; Pass ✓ Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: 0.3

deltaCal®: -1.6

Allowed diff. = ± 2°C; Pass ✓ Fail \_\_\_\_\_

**Audited Instrument:**

Station: North Make/Model: PQ200 S/N: 79407

Date: 20231031 Time: 10:30 deltaCal®S/N: 172457

Tech: HJ/SJ

**Leak Test**

Pass X Fail \_\_\_\_\_ Passed on 2023-10-28

**Flow Rate – Lpm**

Sampler: 16.7

deltaCal®: 16.30

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 2\%$

Allowed diff. = 4%; Pass ✓ Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: -2.7°C

deltaCal®: -1.6

Allowed diff. = ±2°C; Pass ✓ Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 734.0

deltaCal®: 735.6

Allowed diff. = ±10 mm; Pass ✓ Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: -2.0

deltaCal®: -2.7

Allowed diff. = ± 2°C; Pass ✓ Fail \_\_\_\_\_

**Audited Instrument:**

Station: North Make/Model: PQ200 S/N: 79407

Date: 2023/20/1 Time: 8:59 deltaCal®S/N: 172457

Tech: SC/EO

**Leak Test**

Pass Passed Fail \_\_\_\_\_

**Flow Rate - Lpm**

Sampler: 16.7

deltaCal®: 16.44

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = 1.58$

Allowed diff. = 4%; Pass Passed Fail \_\_\_\_\_

**Ambient Temp. - °C**

Sampler: -5.1°C

deltaCal®: -4.0°C

Allowed diff. = ±2°C; Pass Passed Fail \_\_\_\_\_

**Barometric Pressure - mm of Hg**

Sampler: 724

deltaCal®: 725.6

Allowed diff. = ±10 mm; Pass passed Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: -5.5

deltaCal®: -4.5

Allowed diff. = ± 2°C; Pass passed Fail \_\_\_\_\_



**Audited Instrument:**

Station: South Make/Model: PQ 200 S/N: 1751

Date: 2023 12 01 Time: 09:37 deltaCal®S/N: 172457

Tech: cc/EO

**Leak Test**

Pass Passed Fail \_\_\_\_\_

**Flow Rate – Lpm**

Sampler: 16.72

deltaCal®: \_\_\_\_\_

*note QA says 'Under'*

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 = -0.36$

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

2023 12 03 14:25  
16.70 Sampler  
16.64 Delta cal

**Ambient Temp. - °C**

Sampler: -3.4

deltaCal®: -3.0

Allowed diff. = ±2°C; Pass Passed Fail \_\_\_\_\_

**Barometric Pressure – mm of Hg**

Sampler: 724

deltaCal®: 726.4

Allowed diff. = ±10 mm; Pass Passed Fail \_\_\_\_\_

**Filter Temp. °C**

Sampler: -4.2

deltaCal®: -4.0

Allowed diff. = ± 2°C; Pass Passed Fail \_\_\_\_\_

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 1752  
Date: 2023 12 01 Time: 10:18 deltaCal® S/N: 172457  
Tech: CC/EO

Leak Test

Pass passed Fail \_\_\_\_\_

Flow Rate – Lpm

Sampler: 16.72

deltaCal®: \_\_\_\_\_

*Gays "Under" ?*

% diff. = [(deltaCal®-sampler)/deltaCal®] x 100 = -0.059

Allowed diff. = 4%; Pass X Fail \_\_\_\_\_

20231203 16:01  
16.72  
16.71

Ambient Temp. - °C

Sampler: -4.6 °C

deltaCal®: -3.0 °C

Allowed diff. = ±2°C; Pass passed Fail \_\_\_\_\_

Barometric Pressure – mm of Hg

Sampler: 726

deltaCal®: 726.9

Allowed diff. = ±10 mm; Pass passed Fail \_\_\_\_\_

Filter Temp. °C

Sampler: -5.3 °C

deltaCal®: -3.4

Allowed diff. = ± 2°C; Pass passed Fail \_\_\_\_\_

Audited Instrument:

Station: North Make/Model: PQ200 S/N: 79407  
Date: 20231231 Time: 10:45 deltaCal®S/N: 172457  
Tech: CC

Leak Test

Pass 2 Fail \_\_\_\_\_

\* Failed the first couple tries

Flow Rate – Lpm

Sampler: \_\_\_\_\_

deltaCal®: \_\_\_\_\_

% diff. =  $[(\text{deltaCal}^\circ - \text{sampler}) / \text{deltaCal}^\circ] \times 100 =$

Allowed diff. = 4%; Pass \_\_\_\_\_ Fail X

Could not get to calibrate

had mass flow exceedance error before the deltaCal reached 15.1 pms

Ambient Temp. - °C

Sampler: \_\_\_\_\_

deltaCal®: \_\_\_\_\_

Allowed diff. = ±2°C; Pass \_\_\_\_\_ Fail \_\_\_\_\_

~~Sampler~~

Barometric Pressure – mm of Hg

Sampler: \_\_\_\_\_

deltaCal®: \_\_\_\_\_

Allowed diff. = ±10 mm; Pass \_\_\_\_\_ Fail \_\_\_\_\_

Placed the NW PQ200 @ North Section.

S/N 79407 PQ200 is at the lab.

Filter Temp. °C

Sampler: \_\_\_\_\_

deltaCal®: \_\_\_\_\_

Allowed diff. = ± 2°C; Pass \_\_\_\_\_ Fail \_\_\_\_\_

Audited Instrument:

Station: South Make/Model: PQ 200 S/N: 1751

Date: 2023/23/1 Time: 12:00 deltaCal® S/N: 172457

Tech: CC

Leak Test

Pass X Fail \_\_\_\_\_

Flow Rate – Lpm

Sampler: 16.46 16.7

deltaCal®: 16.7 16.46

% diff. = [(deltaCal®-sampler)/deltaCal®] x 100 =

Allowed diff. = 4%; Pass 1.46 Fail \_\_\_\_\_

Ambient Temp. - °C

Sampler: -8.0

deltaCal®: -7.8

Allowed diff. = ±2°C; Pass ✓ Fail \_\_\_\_\_

Barometric Pressure – mm of Hg

Sampler: 732

deltaCal®: 733.4

Allowed diff. = ±10 mm; Pass 2 Fail \_\_\_\_\_

Filter Temp. °C

Sampler: -7.2

deltaCal®: -6.5

Allowed diff. = ± 2°C; Pass 2 Fail \_\_\_\_\_

Audited Instrument:

Station: Northwest Make/Model: PQ200 S/N: 1752  
Date: 2023 12 31 Time: 12:50 deltaCal® S/N: 172457  
Tech: CC

Leak Test  
Pass X Fail \_\_\_\_\_

Flow Rate - Lpm

Sampler: 16.72  
deltaCal®: 16.63

% diff. = [(deltaCal® - sampler) / deltaCal®] x 100 =  
Allowed diff. = 4%; Pass 0.54 Fail \_\_\_\_\_

Ambient Temp. - °C

Sampler: -8.3  
deltaCal®: -7.2

Allowed diff. = ±2°C; Pass 2 Fail \_\_\_\_\_

Barometric Pressure - mm of Hg

Sampler: 734  
deltaCal®: 734.2

Allowed diff. = ±10 mm; Pass 2 Fail \_\_\_\_\_

Filter Temp. °C

Sampler: -6.5  
deltaCal®: -6.0

Allowed diff. = ± 2°C; Pass 2 Fail \_\_\_\_\_

*Had to be moved to North Station.*

After move  
Station: North PQ200 S/N 1752  
Date: 2023 12 31 Time: 4:15 deltaCal® S/N: 172457

Leak Test: PASS  
Flow Rate Sampler: 16.70  
Delta cal: 16.85  
0.89% PASS

Ambient temp  
Sampler: -7.4  
DeltaCal: -5.8 PASS

Pressure:  
Sampler: 732  
deltaCal: 733.1  
PASS

-filter temp.  
Sampler: -0.6  
-2.1  
PASS

# **APPENDIX E: SAMPLE EDIT LOGS**

## APPENDIX E-1: TOTAL SUSPENDED PARTICULATE SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Total Suspended Particulate (TSP)

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
| 1 |        |      |        |

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |
|   |        |      |        |



Address: Rainy River Mine

Station Name: North (Gallinger Road)

Station Location: North of the Site at Gallinger Road

Measurement Instrument: High Volume (Hi-Vol) Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

| # | Action         | Date   | Reason   |
|---|----------------|--------|--|
| 1 | Invalid Sample | Oct 3  | Sample volume was below the lower volume limit |
| 2 | Invalid Sample | Nov 14 | Sample volume was below the lower volume limit |

## APPENDIX E-2: RESPIRABLE PARTICULATE MATTER SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Tait Road Station

Station Location: Near McMillan Road along the realigned Highway 600

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

| # | Action         | Date  | Reason   |
|---|----------------|-------|--|
| 1 | Invalid Sample | Oct 3 | Sample volume was below the lower volume limit |

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Gallinger Road Station

Station Location: North-east of the Site along Gallinger Road

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
| 1 |        |      |        |

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Respirable Particulate Matter (PM<sub>2.5</sub>)

Measurement Instrument: PQ200 Sampler

Start Date: October 1, 2023

End Date: December 31, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |

## APPENDIX E-3: DUSTFALL SAMPLE EDIT LOG

Emitter: New Gold Inc.

Address: Rainy River Mine

Station Name: Northwest Station

Station Location: North-west of the Site at Tailings Management Area

Pollutant/Parameter: Dustfall

Measurement Instrument: Passive Sampler Jar

Start Date: October 1, 2023

End Date: December 31, 2023

| # | Action | Date | Reason |
|---|--------|------|--------|
|   |        |      |        |